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7/27/99
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SUSQUEHANNA STEAM ELECTRIC STATION

PP&L, Inc.

UNIT 2 NINTH REFUELING AND INSPECTION OUTAGE

INSERVICE INSPECTION
OUTAGE SUMMARY REPORT

Prepared By: _____ Approved By: _____ 7/20/99

ISI Engineer Supervisor-NDE-SSES

July, 1999

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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner: PP&L, INC.
TWO NORTH 9th STREET ALLENTOWN, PA 18101
(Name and Address of Owner)
2. Plant: SUSQUEHANNA STEAM ELECTRIC STATION, RT. 11, BERWICK, PA 18603
(Name and Address of Plant)
3. Plant Unit: TWO 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 2/12/85 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RHRSW	BECHTEL	2-16	N/A	N/A
FPC	BECHTEL	2-35	N/A	N/A
FEEDWATER	BECHTEL	2-45	N/A	N/A
RHR	BECHTEL	2-49	N/A	N/A
RCIC	BECHTEL	2-50	N/A	N/A
CORE SPRAY	BECHTEL	2-51	N/A	N/A
HPCI	BECHTEL	2-52	N/A	N/A
SBLC	BECHTEL	2-53	N/A	N/A
ESW	BECHTEL	2-54	N/A	N/A
CRD	BECHTEL	2-55	N/A	N/A
RWCU	BECHTEL	2-61	N/A	N/A
RPV	BECHTEL	B5024	B111231	3687
Nuclear Boiler	BECHTEL	2-62	N/A	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 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.

This form (E00029) may be obtained form the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RR	BECHTEL	2-64	N/A	N/A
MAIN STEAM	BECHTEL	2-83	N/A	N/A
MSIVLC	BECHTEL	2-83	N/A	N/A
RHR HEAT EX.	MLW	106390	469380	122
RHR HEAT EX.	MLW	106410	469381	124

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FORM NIS-1 (back)

8. Examination Dates 05/10/97 to 04/10/99 9. Inspection Interval from 6/1/94 to 6/1/04

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

SEE ATTACHED REPORT

11. Abstract of Conditions Noted. SEE ATTACHED REPORT

12. Abstract of Corrective Measures Recommended and Taken
SEE ATTACHED REPORT

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

Date 7-22 19 99 Signed PP&L,Inc. Owner By RJ Saunders V.P. Nuclear Operations

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

CERTIFICATE OF INSERVICE 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 * of NORWOOD, MASS. have inspected the components described in this Owners' Data Report during the period 5/10/97 to 4/10/99 and state that to the best of my knowledge and belief, the Owner has performed examination and taken corrective measures described in this Owners' Data Report in accordance with the requirements of ASME Code, Section XI.*

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

Date July 23 19 99 *PROTECTION MUTUAL INSURANCE CO.*

Inspector's Signature *Commissions* NB 7525 IBNA PA 2159 *National Board, State, Province and No.*

* *PROTECTION MUTUAL INSURANCE COMPANY*
1151 BOSTON-PROVIDENCE PIKE
NORWOOD, MA

A. INTRODUCTION

This report will document the Inservice Inspection (ISI), test, and repair/replacement activities associated with Susquehanna Steam Electric Station (SSES) Unit 2 for its Ninth fuel cycle. This timeline encompasses work performed from the time of breaker closure after the Unit 2 Eighth Refuel and Inspection Outage up to the time the breaker was closed following the Unit 2 Ninth Refuel and Inspection Outage.

1. SSES Unit 2 began commercial operation on February 12th 1985. The unit was shut down for its ninth refueling and inspection outage on March 13, 1999 at 0009 hours (breaker open), twenty-one (21) months into its 2nd Inspection Period of the Second Ten Year Interval. The refueling outage was completed on April 28, 1999 at 2312 hours (breaker closure).

2. The applicable year and addenda of the ASME Boiler and Pressure Vessel Code, Division 1, Section XI for SSES Unit 2 is the 1989 Edition. In addition, ASME Sections IWE and IWL 1992 Edition with 1992 Addenda are applicable for the Inspection, Repair and Replacement activities associated with the Unit 2 Containment structure; ASME Section XI, 1990 Addendum for Subsection IWF; ASME Section XI, 1993 Addendum for PDI Appendix VIII Ultrasonic (UT) Inspections. PP&L has selected the 10-year inspection interval as prescribed in IWA-2420, Plan B. The current dates for the second Ten Year Interval are:

1st Period:	June 1, 1994 to June 1, 1997
2nd Period:	June 2 , 1997 to January 1, 2001
3rd Period:	January 2, 2001 to June 1, 2004

3. This report is divided into the following sections:

- Piping and Components Examinations
- Reactor Pressure Vessel Internal Examinations
- Reactor Pressure Vessel External Examinations
- System Pressure Tests
- Snubber Functional Tests
- Snubber Visual Examinations
- Erosion/Corrosion Examinations
- ASME Repairs and Replacements
- Containment Inspection

4. Each of these sections is handled as a separate entity within this report. All required information for each section is included in that section or in the noted appendices. Class 1, 2, and 3 components are included in this report. PP&L has commitment to use the Outage Summary Report to transmit the NIS-2 Forms for ASME Section III components, R-1 and R-2 Forms for ASME Section I, IV or VIII components.

5. The Authorized Nuclear Inservice Inspectors for this Period were:

William R. Rogers III	Factory Mutual
David L. Daullary	401 City Avenue, Suite 715
David V. Luettgen	Bala Cynyd, Pennsylvania

B. PIPING AND COMPONENTS EXAMINATIONS

1. Abstract of Examinations

The piping and component examinations were conducted in accordance with Section IWB, IWC, IWD, and IWF 2000 of ASME Section XI and Code Cases N-460, N-509 and N-524, and the Inservice Inspection Manual.

The NDE contractor for the Unit 2-9RIO was General Electric Co. of Huntersville, North Carolina. Three Hundred Thirty Two (332) piping exams were completed during the pre-outage and outage time frame. A detailed listing of the examinations performed this outage and the results are contained in Appendix B.

2. Code Compliance Summary

Appendix A provides a list by Code Category and Item of all augmented and Section XI Class 1, 2, and 3 components. This Summary identifies Unit 2-9RIO exam completion percentages in relation to the second interval program commitments.

3. Abstract of Conditions Noted and Corrective Action Taken

There were ten (10) Condition Reports (CR's) generated against piping and components. The reported nonconformance was corrected or evaluated as acceptable for continued service prior to returning the unit to service. Two of the conditions noted (CRs 94426, 94461) were determined to be service-induced.

CR#	COMPONENT	SYSTEM	CONDITION	DISPOSITION
92402	GBB-207-H5	RHR	Loose Bolting	Rework
92403	GBB206-H6	RHR	Loose Bolting	Rework
92759	HRC-214-1H1	RHRSW	Frozen Bushing	Rework
92761	HBB-201-H5	RCIC	Loose Bolting	Rework
93287	DCA-211-H33	RHR	Loose Bolting	Rework
93866	GBC-201-9H151 GBC-201-11H250	MS	Loose Bolting	Rework
94461	'A' RHR HX	RHR	Bracket Weld Cracking	Repair
93918	GBB-207-H56	RHR	Base Plate & Bolting	Rework Non-Outage
94259	'B' RHR HX	RHR	Indications on Integral Supports/Procedural Violation	Inspect/Evaluate and Inspect 'B' RHR HX
94426	'B' RHR Hx	RHR	Weld Cracking	Repair

4. Incomplete Examinations

The following table lists twenty-nine (29) inspections where physical access to the entire component was limited.

COMPONENT	CODE CAT/ITEM #	DESCRIPTION	SYSTEM	COVERAGE
DCA2102-FW-2	B-J/B9.11	VALVE-FLUED HEAD	RHR/49	84.5%**
DBB2072-FW-3	AUG2/MSIP	PIPE-VALVE?	RHR/49	82%**
DCA2081-FW-11	AUG2/MSIP	VALVE-ELBOW	RHR/49	87.5%**
DCA2111-FW-2	B-J/B9.11	VALVE-PIPE	RHR/49	87.5%**
DCB2021-FW-4	AUG2,MSIP, B-J/CAT B,B9.11	FLUED HEAD-ELBOW	RHR/49	87.5%**
DCA2113-FW-11	B-J/B9.11	PIPE-FLANGE	RHR/49	87.5%**
DCA2113-FW-13	B-J/B9.11	FLANGE-PIPE	RHR/49	87.5%**
DCA2022-1-B	B-J/B9.11	TEE-PIPE	RWCU/61	87.5%**
VRRB313-FW-A-11	AUG2/CAT B, B-J/B9.11	SWOL-PIPE	RR/64	87.5%**
VRRB313-FW-A-14	AUG2,CAT-B,B-J/B9.11	SWOL-PIPE.	RR/64	87.5%**
VRRB313-FW-A-3	AUG2,CAT-B,B-J/B9.11	ELBOW-VALVE	RR/64	87.5%**
VRRB313-3-F	AUG2/CAT B,B-J/B9.11	CROSS- PIPE BEND	RR/64	87.5%**
VRR314-FW-B-1	AUG2,CAT-B,B-J/B9.11	SAFE END-PIPE	RR/64	87.5%**
VRRB314-FW-B-20	AUG2,CAT-B,B-J/B9.11	PIPE-VALVE	RR/64	87.5%**
VRRB314-10-C	AUG2,CAT-B	PIPE-TEE	RR/64	87.5%**
VRRB314-9-2-B	B-J/B9.31	PB-SWOL	RR/64	87.5%**
VRRB313-3-2-B	B-J/B9.31	PB-SWOL	RR/64	87.5%**
VRRB314-FW-B-23	B-J/B9.11	SWOL-PIPE	RR/64	87.5%**
VRRB313-3-2-C	B-J/B9.31	PB-SWOL	RR/64	87.5%**
VRRB313-3-1-G	B-J/B9.31	PB-SWOL	RR/64	87.5%**
VRRB314-FW-B-1	B9.11/MSIP	SAFE-END	RR/64.	82.3%**
VNBB213-FW-D-4	B-J/B9.11	ELBOW-VALVE	MS/83	66.0%**
VRRB314-FW-B-5	AUG2,CAT B,B-J/B9.11	ELBOW-PUMP	RR/64	69.75%**
VRRB313-FW-A-5	AUG2,CAT B,B-J/B9.11	ELBOW-PUMP	RR/64	66.3%**
DBB207-1-FW-3	AUG2/MSIP,B-J/B9.11	PIPE-VALVE	RHR/49	50.4%**
2E-205B-23	CB/C2.21	NOZZLE-SAFE END	RHR/49	91.6%
2E-205B-23(Inner Radius)	CB/C2.21	NOZZLE INNER RADIUS-N4B	RHR/49	91.6%
2E-205A-13	C-A/C1.10	SHELL CIRC WELD	RHR/49	91.3%*
VRRB314-FW-B-1	AUG2, MSIP, B-J/B9.11	SAFE END-PIPE	RR/64	75.0%**

NOTES: *Denotes Full Exam Coverage Per Code Case N-460
**Relief Request to be Issued

5. Applicable Code Cases

Three (3) ASME Code Cases were utilized for Piping Inspections during the Unit 2-9RIO;
N-460-Alternative Examination Coverage for Class 1 and Class 2 Welds;
N509-Alternative Rules for the Selection and Examination of Class 1,2, and 3 Integrally Welded Attachments;
N524-Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping

6. Successive Inspections

None in accordance with Section XI Paragraph IWB-2420(b), IWC-2420 and IWF-2420.

7. Special Examinations

Six (6) Piping Welds were volumetrically inspected under NUREG 0313 as the second post-MSIP exam. No reportable/rejectable indications were found on the following welds:

Component	Description	Size	System	Exam Type	Wave Type	Indications
DBB2071-FW-3	Pipe-Valve	24 "	RHR/49A	Vol.	*60°RL 45° Shear	Root Geometry
DBB2072-FW-3	Pipe-Valve	24 "	RHR/49B	Vol.	60°RL 45° Shear	NRI
DBB2072-1-D	Elbow-Pipe	24"	RHR/49B	Vol.	45° Shear	NRI
DCA2081-FW-11	Valve-Elbow	20"	RHR/49B	Vol.	60°RL 45° Shear	NRI
DCB2021-FW-4	Flued Head-Elbow	6"	RHR/49B	Vol.	70° RL 45° Shear	Root Geometry
HBB2111-1-A	Elbow-Reducer	20"	RHR/49B	Vol.	60° RL 45° Shear	NRI

* Automated (Smart 2000) Exams

Twelve (12) Inspections were performed in Response to the Industry Event Review Program (IERP) 96-022

Component	Description	Size	System	Exam Type	Wave Type	Indications
SPDCA2162-FW-1	Pipe-Pipe	1"	RR/64	Sur.	N/A	NRI
SPDCA2171-FW-10	Pipe-Pipe	1"	RR/64	Sur.	N/A	NRI
SPDCA2183-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2184-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2192-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2194-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2203-FW-13	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2205-FW-20	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2215-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2225-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2233-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI
SPDCA2235-FW-1	Pipe-Elbow	1"	RR/64	Sur.	N/A	NRI

* Automated (SMART 2000) Examinations

C. REACTOR PRESSURE VESSEL INTERNAL EXAMINATIONS

1. Abstract of Examinations

General Electric (GE) personnel performed the RPV Internal Examinations. Videotape records were filmed as part of the visual examinations by GE. RPV Internal Ultrasonic Volumetric Examinations on the core shroud were both performed and interpreted by GE. Four hundred forty and (440) components were examined during the U2-9RIO.

CATEGORY DESCRIPTION

AUG3	Augmented inspections of feedwater nozzles and spargers per NUREG-0619.
AUG5	Non-Code volumetric inspections of jet pump hold down beams.
AUG6	Non-Code visual inspections of RPV internals (including steam dryer).
AUG7	Non-Code volumetric inspections (excluding jet pump hold down beams).
B-N-1	Reactor Vessel Interior (Code Inspection).
B-N-2	Integrally welded core support structures and interior attachments to the reactor vessel (Code Inspection).

Appendix B provides a detailed listing of the components examined under the above examination categories.

2. Code Compliance Summary

Appendix A provides a breakdown by Code Category and Item for RPV Internal Examinations. This summary includes the total number of selected components for the first, second and third period in relation to the First Inspection Interval.

3. Abstract of Conditions Noted and Corrective Actions Taken

There were three (3) Condition Reports (CRs) generated against Invessel ISI Components. The CRs were corrected or evaluated as acceptable for continued service prior to returning the unit to service.

CR#	COMPONENT	CONDITION	DISPOSITION
93621	Core Spray Support Bracket	Cracking in HAZ of shroud	Use As Is
92867	Main Steam Dryer Support Ring	Cracking of Support Ring	Use As Is
93568	Core Shroud	Cracking in the horizontal weld HAZ	Use As Is

4. Incomplete Examinations

There were nine(9) incomplete examinations associated with the Core Shroud/Shroud Support during the U2-9RIO. These examinations were incomplete due to the GE Shroud Inspection Tooling being unable to fit in certain regions of the annular region.

5. Applicable Code Cases

There were no code cases used during the report period.

6. Successive Inspections

There were no Code related successive inspections performed during the U2-9RIO.

7. Special Examinations

None.

D. REACTOR PRESSURE VESSEL EXTERNAL EXAMINATIONS

1. Abstract of Examinations

The RPV External Examinations were conducted in accordance with Section IWB-2500-1 of the ASME Section XI and PP&L Document ISI-T-208.0. One Hundred Sixty Three.(163) examinations were performed during the U2-9 RIO. The NDE Contractor utilized was General Electric, Huntersville, NC. The results of these examinations are imbedded in Appendix B under the applicable code categories.

2. Code Compliance Summary

Section XI, Class 1 RPV components are included in a breakdown by Code Category and Item number in Appendix A. This summary includes percentages for the first, second and third periods in relation to the First Interval.

3. Abstract of Conditions Noted and Corrective Action Taken

One (1) CR was written against RPV External Exams this outage for the ongoing CRD Bolting problem.

4. Incomplete Examinations

There were thirteen (13) examinations where access was limited due to configurations or physical obstructions. These exams will be submitted for relief (except if already exists) except where noted. The affected components are as follows:

COMPONENT	DESCRIPTION	COVERAGE
N5A&B NOZ-SE	Nozzle-Safe End	94%
Vessel Weld AF	Vessel Shell Weld	96.8%**
Bottom Head Vessel Seams DA DB DC DD DE DF	Manual Exams	All 6 Welds 90.8% *
Bottom Head Vessel Seams DG DH	Manual Exams	Both 23.7%
N1B NOZ-SE	Nozzle-Safe End	85.6%
Jet Pump Inst. N8A CRD Return N9	Nozzle to Shell Course Weld Nozzle to Shell Course Weld	78.2% 78.2%

*Denotes exam that will invoke full coverage per Code Case N-460.
** 1/3 of exam completed. When entire weld is completed, coverage will be 90.1% and covered by Code Case N-460.

5. Applicable Code Cases

There were no code cases used other than the previously mentioned N-460.

6. Successive Inspections

There were no successive inspections performed during the Unit 2-9RIO. Note: Successive examinations of the CRD bolting has been covered under Relief Request RR-7.

7. Special Examinations

Seven (7) Reactor Recirculation and two(2) Core Spray, were examined using General Electric's Automated "SMART 2000" System:

COMPONENT	DESCRIPTION	SIZE	EXAM	RESULTS
* N1B NOZ-SE	Recirc Suction (CS to SS)	28"	45 Shear 45 & 60 RL	Geometric Indications
* N2B NOZ-SE * N2C NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
* N2D NOZ-SE * N2E NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
* N2G NOZ-SE * N2H NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
* N5A NOZ-SE * N5B NOZ-SE	Core Spray (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications

* These exams are post weld stress improved.

E. SYSTEM PRESSURE TESTS

1. Abstract of Tests Conducted

SYSTEM PRESSURE TESTS AND HYDROSTATIC TESTS

TEST BOUNDARY	CLASS	CODE CATEGORY	TEST PROCEDURE
CLASS 1 Boundary (Ref Subsect E.5)	1	B-P	SE-200-002
PERIODIC INSERVICE & FUNCTIONAL LEAK TEST			
Feedwater	2	C-H	SE-245-301
RHR	2	C-H	SE-249-301
RCIC	2	C-H	SE-250-301
Core Spray	2	C-H	SE-251-301
HPCI	2	C-H	SE-252-301
SBLC	2	C-H	SE-253-301

2. Code Compliance Summary

The above tests fulfill the periodic system pressure test requirements.

3. Abstract of Conditions Noted and Corrective Action Taken

No through wall leakage on the Pressure Retaining Boundary of the system was identified. Minor mechanical leaks in packing, seals, etc. were found during the inspections. These leaks were documented and corrected by PP&L Maintenance Personnel.

4. Incomplete Examinations

There were no incomplete examinations during the U2-9RIO.

5. Applicable Code Cases & Relief Requests

Code Case N-416-1 was used, with specific NRC approval and conditions, for pressure testing of welded repairs. Use of this code case is addressed by Relief Request RRPT-1.

Code Case N-498-1 was used, with specific NRC approval for Susquehanna, to satisfy the Interval System Hydrostatic Test requirements. Use of this code case is addressed by Relief Request RRPT-5.

Per Relief Request RRPT-2, for leakage observed at control-rod-to-housing bolted connections, the bolting was examined in place under tension. All accessible surfaces of the bolting were VT-3

visually examined for corrosion and evaluated in accordance with IWA-3100. Relief Request RRPT-2 has been approved for use at Susquehanna.

Per Relief Request RRPT-6, for leakage observed at any bolted connections not individually specified by other Relief Requests, one of the bolts in the connection shall be removed, VT-3 visually examined, and evaluated in accordance with IWA-3100. The bolt selected shall be the one closest to the source of the leakage. Relief Request RRPT-6 has been approved for use at Susquehanna.

Per Relief Request RRPT-7, for leakage observed at incore instrument flange-to-housing bolted connections, the source of the leakage shall be evaluated by the Owner to determine the susceptibility of the bolting to corrosion and potential failure. If the evaluation, based upon at least the seven prescribed variables, indicates a need for further evaluation or if no evaluation is performed, then a bolt in the leakage path will be removed. The removed bolt will be VT-3 visually examined for corrosion and evaluated in accordance with IWB-3140. Relief Request RRPT-7 has been approved for use at Susquehanna.

Per Relief Request RRPT-8, for leakage observed at a reactor recirculation pump case-to-cover bolted connection, the source of the leakage shall be evaluated to determine the susceptibility of the bolting to corrosion and potential failure. If the evaluation, based upon at least the seven prescribed variables, indicates a need for further evaluation, then all of the studs will be volumetrically examined and evaluated in accordance with IWB-3515. Relief Request RRPT-8 has been approved for use at Susquehanna.

6. Successive Inspections

There were no successive inspections performed during the U2-9RIO.

7. Special Examinations

None

F. MECHANICAL SNUBBER FUNCTIONAL TESTS

1. Abstract of Examinations

A total of eighty-eight (88) plant installed and twenty-eight (28) spare mechanical snubbers were functionally tested. All snubbers were manufactured by Pacific Scientific. The contractor utilized was Wyle Testing. The snubbers were selected and tested in accordance with Susquehanna Steam Electric Station Technical Requirements Manual (TRM) 3.7.8, Snubbers. PP&L previously submitted relief request RR-3 requesting specific relief from the requirements of IWF-5000 in ASME Section XI. This relief request is contained in document ISI-T-106/206.0, Inservice Inspection Program Plan Second Ten Year Inspection Interval.

2. Code Compliance Summary

Per relief request RR-3, the functional testing of snubbers was conducted in accordance with the Plant Technical Requirements Manual (TRM) 3.7.8. The requirements of the TRM were satisfied.

3. Abstract of Conditions Noted and Corrective Actions Taken

a. The testing options allowed by Unit 2 Technical Requirements Manual (3.7.8.2) resulted in snubbers being classified into each size being tested on a 10% Sample plan.

Size 1/4	Amount in Initial Sample		1
Size 1/2	Amount in Initial Sample		1
Size 1	Amount in Initial Sample	4	
Size 3	Amount in Initial Sample	4	
Size 10	Amount in Initial Sample		6
Size 35	Amount in Initial Sample		19
Size 100	Amount in Initial Sample		2
Comp Struts	Amount in Initial Sample		1
	TOTAL:		38

Testing of non-Technical Requirements Snubbers occurred on a 10% basis.

Size 1	Amount in Initial Sample	1	
Size 3	Amount in Initial Sample	2	
Size 10	Amount in Initial Sample		2
Size 35	Amount in Initial Sample		3
Size 100	Amount in Initial Sample		1
	TOTAL:	9	
TOTAL			47

b. The following results were achieved during the testing:

SIZE	TOTAL	#TESTED	#FAILED	# Spares Tested
1/4	8	2	1	4
½	10	3	1	5
1	45	6	0	3
3	49	18	6	7
3L	4	2	0	1
10	68	14	1	4
10L	1	0	0	0
35	215	33	1	3
100	26	9	0	1
.05	5	1	0	0
.12	4	0	0	0
Total	**435**	**88**	**10**	**28**

c. The snubbers that failed testing were replaced. The replacement snubbers were successfully tested prior to their installation.

An engineering evaluation was performed on the piping system for all failed snubbers at their locations. The evaluation concluded that all supported components and piping systems were still capable of meeting their intended design function and service requirements.

4. Detailed Listing

a. Procedure utilized: MT-AD-595 Rev 5, Snubber Program.

b. Snubbers tested: See table Unit 2-9RIO Snubber Functional Testing summary (page 18) for a list of the Category, size, number tested, and number of failures.

c. The Functional Daily Log lists snubbers that were tested or replaced (See Appendix C).

d. The NIS-2 Forms for ASME Section XI replacements are listed in Appendix, D3.

UNIT 2 - 9RIO
SNUBBER FUNCTIONAL TESTING SUMMARY

Size	TRM (Initial Sample)	Non-TRM (Initial Sample	Previous Failures	Required	Sub-Total (Scheduled)	Additional Tests	Total of Scheduled and Additional
PSA-1/4	1(1)	0	0	0	1(1)	1	2(1)
PSA-1/2	1	0	2(1)	0	3(1)	0	3(1)
PSA-1	4	1	1	0	6	0	6
PSA-3/3L	4(2)	2	1	0	7(2)	13(4)	20(6)
PSA-10	6(1)	2	0	0	8(1)	6	14(1)
PSA-35	19	3	1	10(1)	33(1)	0	33(1)
PSA-100	2	1	0	6	9	0	9
PSB-.05	1	0	0	0	1	0	1
PSB-12	0	0	0	0	0	0	0
TOTALS	38(4)	9	5(1)	16(1)	68(6)	20(4)	88(10)

Note: Failure Quantities Shown with a ( )

Unit 2- 9th Functional Testing Plan Results

Size	IS	Failure	1st Retest	Fail	2nd Retest	Fail	3rd Retest
¼	1	Yes	1	None	N/R		
½	1	None	N/R				
1	4	None	N/R				
3	4	Yes	4	Yes	4	None	N/R
10	6	Yes	6	None	N/R		
35	19	None	N/R				
100	2	None	N/R				
Comp Strut	1	None	N/R				
Non-Tech Spec	9	None	N/R				

N/R – Not Required

SNUBBER FUNCTIONAL TESTING PLAN FOR 1999
U2-9RIO

	Initial Sample			
Size	Safety	Non-Safety	Previous Failures	Others Required
¼	1	0	0	
½	1	0	2	0
1	4	1	1	0
3	4	2	0	0
3L	0	0	1	0
10	6	2	0	0
35	19	3	1	10
100	2	1	0	6
Comp Struts	1	0	0	0
Total	**38**	**9**	**5**	**16**

UNIT 2 -9RIO
SNUBBER CONDITION REPORT LOG
THE FOLLOWING IS A SYNOPSIS FOR CR's INITIATED AGAINST SNUBBERS

CR#	System	Component	Condition	Disposition
93737	293	MSL200H10A	Mechanical Damage to Rear Bracket	Ground Weld on Rear Bracket to An Even Contour
93737	293	MSL200H10B	Mechanical Damage to Rear Bracket	Ground Weld on Rear Bracket to An Even Contour
94255	Various	EBD210H2 EBD210H4 EBD210H5 EBD213H4 EBD213H5 DBA201H6 GBC201H137 MSL200H9A SPDCA233H3008 SPDCA208H13	SM-200-002 Requires a CR to be Generated When Snubber Functional Failure Occurs	Performed Failure Analysis on Failed Snubbers and Installed Replacement Snubbers

G. MECHANICAL SNUBBER VISUAL EXAMINATIONS

1. Abstract of Examinations

Visual examinations were not performed during the Unit 2-9th RIO. The next visual examinations are scheduled for the Unit 2-10th RIO.

ISI SNUBBER REPAIR AND REPLACEMENT SUMMARY

1. 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 2 9th Refueling and Inspection Outage.

2. 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 REPLACEMENT SUMMARY

Work in this area consists of Work Authorizations for Section XI replacements of snubbers and parts.

3A Summary of replacements for snubbers, by system, Work Authorization Number and Support Number (see Attachment 3A)

3B Summary of replacement of snubber parts by system, Work Authorization Number, Support Number and Replace Parts (See Attachment 3b)

Note: No repairs performed during the Unit 2 9th RIO.

Attachment 3A

SNUBBERS REPLACED

SYSTEM	WORK AUTHORIZATION	SUPPORT IDENTIFICATION
249E-II	Y80163	GBB218H12
261B-I	Y80001	DBA201H6
261B-I	Y80035	SPDCA233H3008
283A-II	Y80033	SPDBB208H13
283D-III	Y80024	GBC201H137B

Attachment 3B

REPLACEMENT OF SNUBBER PARTS

SYSTEM	WORK AUTHORIZATION	SUPPORT IDENTIFICATION	REPLACED PARTS
250B-II	Y80008	DBB209H16	1 LOAD STUD/1 HEAVY HEX NUT
283A-II	Y80007	DBB205H9	1 LOAD STUD/2 HEAVY HEX NUTS

H. EROSION/CORROSION EXAMINATIONS

1. Abstract of Examinations

General Electric performed non-code erosion/corrosion wall thickness examinations during the U2-9RIO. The scope of work was provided by PP&L Specification M-1414, Rev 9. A total of ninety-five (95) components were examined (see Appendix F of this report), which comprised of one hundred eighteen (118) exams. The disparity between components and exam numbers is due to certain Tees and Reducers which require two exams.

2. Code Compliance Summary

Not applicable since Erosion/Corrosion exams are not part of Section XI. However, a list of inspected components and their respective erosion rates is attached as Appendix F of this report.

3. Abstract of Conditions Noted and Corrective Actions Taken

Evaluation of data is categorized with the distribution of results as follows:

GROUP	DESCRIPTION (%EROSION)	COMPONENTS
1	0% to 20% Erosion	18
2	21% to 30% Erosion	23
3	31% to 50% Erosion	40
4	51% to 99% Erosion	10
5	Erosion >or = 100% Erosion	4
	Total	95

Percent erosion is determined as follows:

$$\% \text{ EROSION} = \frac{(\text{NOMINAL THICKNESS}) - (\text{MEASURED THICKNESS})}{(\text{NOMINAL THICKNESS}) - (\text{MINIMUM THICKNESS})} \times 100$$

The following pipe repair/replacements were performed during U2-9RIO:

		LINE	FUNCTION
Repaired}	WA # V905852E103A-E1		FW HTR
Repaired}	WA # V906012E103B-E1		FW HTR
Replaced}	WA # V53009DBD2041-E1A/B		RFPT Min Flow
Replaced}	ECO 966026	SPHBD20910-E1	EXTST Drain
"	" "	SPHBD20910-E2	"
"	" "	SPHBD20910-E3	"
"	" "	SPHBD2098-E1	"
"	" "	SPHBD2099-E1	"
"	" "	SPHBD2099-E2	"
"	" "	SPHBD2099-E3	"
"	" "	SPHBD2099-E4	"

UNIT 2-9RIO EROSION/CORROSION EXAMS RESULTING IN AN ENGINEERING EVALUATION

NUMBER	EWR	COMPONENT	ISI NUMBER	E/C%	ENGINEERING DISPOSITION
1	92135	X-2894Z2	2E103A-E1	216.5%	Repair East Side, Inspect West Side 10RIO
2	92077	X-2105Z3	SPGAD2541-E1	65%	Acceptable for (2) cycles, Inspect 11RIO
3	92339	X-2895Z2	2E103B-E1	272.1%	Repair East Side, Inspect West Side 10RIO
4	92611	X-2899Z2	2E104C-E1	725.8%	Inspect then Repair Component 10RIO,
5	92612	X-2133Z3	SPEAD2141-E1	47.5%	Acceptable for (3) cycles, Inspect 12RIO
6	92976	X-2795Z2	GBD2033-E1A/B	50.46%	Acceptable for (2) cycles, Inspect 11RIO
7	93089	X-2868Z3	EBD2142-E5	90.47%	Acceptable for (1) cycle, Replace 10RIO
8	92999	X-2687A	HBD2152-E2A	73.4%	Acceptable for (1) cycle, Replace 10RIO
9	93090	X-2095Z3	2SLBPV-E11	94.03%	Acceptable for (1) cycle, Replace 10RIO
10	93212	X-2500Z1	DBB2222-E1	47.2%	Acceptable for (2) cycles, Inspect 11RIO
11	93213	X-2458Z1	GAD2013-E3	77.64%	Acceptable for (3) cycles, Inspect 12RIO
12	93334	X-2231Z3	HBD2063-E2	46.57%	Acceptable for (2) cycles, Inspect 11RIO
13	93335	X-2689Z3	EBD2142-E2	63.26%	Acceptable for (1) cycle, Replace 10RIO
14	93336	X-2696Z1	DBA2012-E1	56.25%	Acceptable for (2) cycles, Inspect 11RIO
15	93492	X-2012Z2	GAD2013-E1	78.23%	Acceptable for (3) cycles, Inspect 12RIO
16	93493	X-2457Z2	GAD2012-E3	67.05%	Acceptable for (3) cycles, Inspect 12RIO
17	93830	X-2686Z1	HBD2152-E1A	103.7%	Acceptable for (1) cycle, Replace 10RIO

Unit 2-9RIO Erosion/Corrosion Exams Resulting in a Condition Report

CR #	Component	System	Condition	Disposition
92354	2E103A	047	Shell thickness below allowable	Repair per Engineering Calculation EC-047-1005
92355	2E103B	047	Shell thickness below allowable	Repair per Engineering Calculation EC-047-1005

4. Incomplete Examinations

None

5. Applicable Code Cases

Not applicable since Erosion/Corrosion exams are not part of Section XI.

6. Successive Inspections

Scheduling of successive inspections will be evaluated by Nuclear System Engineering in accordance with erosion rates identified in Specification M-1414. These exams are tentatively scheduled to be examined during the U2-10RIO.

7. Summary

Appendix F provides a detailed description, location, and erosion rate of all components examined during U2-9RIO.

I. ASME REPAIRS AND REPLACEMENTS

1. Introduction

This section of the Summary Report contains work performed on ASME Section I, III, IV, VIII or XI items identified by Design Change Packages (DCPs) and Work Authorizations (WAs). The scope of work addressed encompasses the period from the end of the U2-8RIO (breaker close) to the end of the U2-9RIO (breaker close).

2. Code Compliance Summary

All work on ASME Section XI items meet the requirements of IWA-4000 (Repairs) and IWA-7000 (Replacements) of Section XI.

3. Repairs and Replacements

Mechanical Maintenance is responsible for conducting repairs and replacements under the WA process and documenting work on NIS-2 Forms. The detailed listing of work performed is summarized in Appendix D.1 along with the NIS-2 Forms.

4. Design Changes

The Modifications Group is responsible for performing Design Changes in accordance with ASME XI under Work Authorizations (WAs). The detailed listing of work performed is summarized in Appendix D.2 along with the NIS-2 Forms.

5. Snubbers

The ISI Group generates NIS-2 Forms to document the replacement snubbers to functional test failures. The detailed listing of the effected snubbers is in Appendix C. Appendix D.3 contains the NIS-2 Forms.

J. CONTAINMENT INSPECTION

1. Abstract of Examinations

Per the requirements of 10CFR 50.55a, dated August 8, 1996, inspections of the containment structure are now required to be performed per the requirements of ASME Section XI, 1992 Edition with 1992 Addenda. This marks the first outage where a containment inspection was performed per the requirements of ASME Section XI.

2. Code Compliance Summary

Appendix F provides a list of examinations carried out on the Unit 2 containment structure.

3. Abstract of Conditions Noted and Corrective Actions Taken

There were no condition reports generated against the containment structure inspection program.

4. Incomplete Examinations

There were no incomplete examinations.

5. Applicable Code Cases

There were no code cases used during the report period. It should be noted that the NRC approved three (3) PP&L relief requests pertaining to the containment inspection program Relief Requests RR-14, RR-15 and RR-16 were formally approved by the NRC via letter dated 3/25/99. Relief Request RR14 deals with the need to perform a VT-3 examination of all gasketing and seals on airlocks, hatches and other devices once per interval. This examination is covered under our existing Appendix J Program. Relief Request RR-15 deals with the need to evaluate repairs/replacements performed on the containment structure for three consecutive inspection periods. Relief Request RR-16 deals with the need to torque bolted connections for connections that have not been disassembled and reassembled during the inspection period to ensure leak integrity. This item was covered under current Appendix J testing requirements. These Relief Requests were utilized as part of the containment inspection program.

6. Successive Inspections

There were no Code related successive inspections performed per IWB 2420 during the U2-9RIO.

7. Special Examinations

None.

APPENDIX A
CODE COMPLIANCE SUMMARY

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
AUG1	AUG1	X-EOI	23	18	18	5	5	0	0	78.26	100.00	100.00
AUG2	CAT-B	X-1P	9	9	9	0	0	0	0	100.00	100.00	100.00
		X-2P	26	0	0	26	26	0	0	.00	100.00	100.00
		X-3P	26	0	0	0	0	26	0	.00	.00	.00
	MSIP	X-10RIO	5	0	0	0	0	5	0	.00	.00	.00
		X-11RIO	1	0	0	0	0	1	0	.00	.00	.00
		X-12RIO	13	0	0	0	0	13	0	.00	.00	.00
		X-7RIO	21	21	21	0	0	0	0	100.00	100.00	100.00
		X-8RIO	11	11	11	0	0	0	0	100.00	100.00	100.00
		X-9RIO	23	0	0	23	23	0	0	.00	100.00	100.00
AUG3	AUG3	X-10RIO	23	0	0	0	0	23	0	.00	.00	.00
		X-12RIO	18	0	0	0	0	18	0	.00	.00	.00
		X-8RIO	18	18	18	0	0	0	0	100.00	100.00	100.00
		X-9RIO	144	0	0	144	144	0	0	.00	100.00	100.00
AUG5	AUG5	X-11RIO	19	0	0	0	0	19	0	.00	.00	.00
		X-12RIO	1	0	0	0	0	1	0	.00	.00	.00
AUG6	AUG6	X-EOI	55	31	31	1	1	23	0	56.36	58.18	58.18
		X-PSI	1	1	1	0	0	0	0	100.00	100.00	100.00
		X-RE	266	106	106	52	52	108	0	39.85	59.40	59.40
		X-RO	218	128	128	6	6	84	0	58.72	61.47	61.47

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
AUG6	AUG6	X-9RIO	203	0	0	203	203	0	0	.00	100.00	100.00
AUG7	AUG7	X-RE	191	95	95	0	0	96	0	49.74	49.74	49.74
		X-RO	16	8	8	0	0	8	0	50.00	50.00	50.00
AUG8	AUG8	X-10RIO	1	0	0	0	0	1	0	.00	.00	.00
		X-11RIO	7	0	0	0	0	7	0	.00	.00	.00
		X-7RIO	8	8	8	0	0	0	0	100.00	100.00	100.00
		X-9RIO	12	0	0	12	12	0	0	.00	100.00	100.00
B-A	B1.11	X-10RIO	4	0	0	0	0	4	0	.00	.00	.00
		X-12RIO	4	0	0	0	0	4	0	.00	.00	.00
		X-8RIO	6	6	6	0	0	0	0	100.00	100.00	100.00
	B1.12	X-10RIO	3	0	0	0	0	3	0	.00	.00	.00
		X-12RIO	7	0	0	0	0	7	0	.00	.00	.00
		X-8RIO	7	7	7	0	0	0	0	100.00	100.00	100.00
	B1.21	X-11RIO	1	0	0	0	0	1	0	.00	.00	.00
		X-9RIO	2	0	0	2	2	0	0	.00	100.00	100.00
	B1.22	X-11RIO	2	0	0	0	0	2	0	.00	.00	.00
		X-7RIO	2	2	2	0	0	0	0	100.00	100.00	100.00
		X-9RIO	10	0	0	10	10	0	0	.00	100.00	100.00
	B1.30	X-12RIO	1	0	0	0	0	1	0	.00	.00	.00
		X-8RIO	1	1	1	0	0	0	0	100.00	100.00	100.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
B-A	B1.30	X-9RIO	1	0	0	1	1	0	0	.00	100.00	100.00
	B1.40	X-11RIO	2	0	0	0	0	2	0	.00	.00	.00
		X-9RIO	2	0	0	2	2	0	0	.00	100.00	100.00
B-D	B3.100	X-10RIO	9	0	0	0	0	9	0	.00	.00	.00
		X-11RIO	3	0	0	0	0	3	0	.00	.00	.00
		X-12RIO	12	0	0	0	0	12	0	.00	.00	.00
		X-8RIO	9	9	9	0	0	0	0	100.00	100.00	100.00
		X-9RIO	2	0	0	2	2	0	0	.00	100.00	100.00
	B3.90	X-10RIO	4	0	0	0	0	4	0	.00	.00	.00
		X-11RIO	3	0	0	0	0	3	0	.00	.00	.00
		X-12RIO	12	0	0	0	0	12	0	.00	.00	.00
		X-8RIO	15	15	15	0	0	0	0	100.00	100.00	100.00
		X-9RIO	2	0	0	2	2	0	0	.00	100.00	100.00
B-E	B4.11	X-HYDRO	1	0	0	0	0	1	0	.00	.00	.00
	B4.12	X-HYDRO	45	0	0	0	0	45	0	.00	.00	.00
	B4.13	X-HYDRO	15	0	0	0	0	15	0	.00	.00	.00
B-F	B5.10	X-12RIO	9	0	0	0	0	9	0	.00	.00	.00
		X-8RIO	10	10	10	0	0	0	0	100.00	100.00	100.00
		X-9RIO	14	0	0	14	14	0	0	.00	100.00	100.00
B-G-1	B6.10	X-11RIO	25	0	0	0	0	25	0	.00	.00	.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
B-G-1	B6.10	X-7RIO	26	26	26	0	0	0	0	100.00	100.00	100.00
		X-9RIO	25	0	0	25	25	0	0	.00	100.00	100.00
	B6.180	X-3P	16	0	0	0	0	16	0	.00	.00	.00
	B6.190	X-7RIO	16	16	16	0	0	0	0	100.00	100.00	100.00
	B6.20	X-11RIO	25	0	0	0	0	25	0	.00	.00	.00
		X-7RIO	26	26	26	0	0	0	0	100.00	100.00	100.00
		X-9RIO	25	0	0	25	25	0	0	.00	100.00	100.00
	B6.200	X-3P	16	0	0	0	0	16	0	.00	.00	.00
	B6.30	X-D	8	8	8	0	0	0	0	100.00	100.00	100.00
	B6.40	X-D	4	0	0	4	4	0	0	.00	100.00	100.00
	B6.50	X-11RIO	25	0	0	0	0	25	0	.00	.00	.00
		X-7RIO	26	26	26	0	0	0	0	100.00	100.00	100.00
		X-9RIO	25	0	0	25	25	0	0	.00	100.00	100.00
B-G-2	B7.10	X-11RIO	3	0	0	0	0	3	0	.00	.00	.00
	B7.50	X-1P	10	10	10	0	0	0	0	100.00	100.00	100.00
		X-2P	5	0	0	5	5	0	0	.00	100.00	100.00
		X-3P	7	0	0	0	0	7	0	.00	.00	.00
	B7.70	X-1P	2	2	2	0	0	0	0	100.00	100.00	100.00
		X-2P	1	0	0	1	1	0	0	.00	100.00	100.00
		X-3P	4	0	0	0	0	4	0	.00	.00	.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
B-G-2	B7.80	X-D	86	62	62	24	24	0	0	72.09	100.00	100.00
B-J	B9.11	X-1P	66	66	66	0	0	0	0	100.00	100.00	100.00
		X-10RIO	4	0	0	4	0	0	0	.00	.00	.00
		X-11RIO	8	0	0	0	0	8	0	.00	.00	.00
		X-12RIO	6	0	0	0	0	6	0	.00	.00	.00
		X-2P	62	0	0	62	62	0	0	.00	100.00	100.00
		X-3P	74	0	0	0	0	74	0	.00	.00	.00
		X-8RIO	28	28	28	0	0	0	0	100.00	100.00	100.00
		X-9RIO	8	0	0	8	8	0	0	.00	100.00	100.00
	B9.12	X-1P	2	2	2	0	0	0	0	100.00	100.00	100.00
		X-2P	34	0	0	34	34	0	0	.00	100.00	100.00
		X-3P	4	0	0	0	0	4	0	.00	.00	.00
	B9.21	X-3P	2	0	0	0	0	2	0	.00	.00	.00
	B9.31	X-1P	8	8	8	0	0	0	0	100.00	100.00	100.00
		X-2P	26	0	0	26	26	0	0	.00	100.00	100.00
		X-3P	26	0	0	0	0	26	0	.00	.00	.00
	B9.40	X-1P	4	4	4	0	0	0	0	100.00	100.00	100.00
		X-3P	5	0	0	0	0	5	0	.00	.00	.00
B-K	B10.10	X-10RIO	1	0	0	0	0	1	0	.00	.00	.00
		X-12RIO	1	0	0	0	0	1	0	.00	.00	.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
B-K	B10.10	X-8RIO	1	1	1	0	0	0	0	100.00	100.00	100.00
		X-9RIO	1	0	0	1	1	0	0	.00	100.00	100.00
	B10.20	X-3P	8	0	0	0	0	8	0	.00	.00	.00
	B10.30	X-2P	1	0	0	1	1	0	0	.00	100.00	100.00
B-M-2	B12.50	X-D	10	5	5	5	5	0	0	50.00	100.00	100.00
B-N-1	B13.10	X-1P	10	10	10	0	0	0	0	100.00	100.00	100.00
		X-2P	10	0	0	10	10	0	0	.00	100.00	100.00
		X-3P	11	0	0	0	0	11	0	.00	.00	.00
B-N-2	B13.20	X-EOI	15	7	7	1	1	7	0	46.67	53.33	53.33
	B13.30	X-EOI	28	11	11	10	10	7	0	39.29	75.00	75.00
		X-RO	8	4	4	0	0	4	0	50.00	50.00	50.00
	B13.40	X-EOI	9	5	5	1	1	3	0	55.56	66.67	66.67
		X-OWA	24	21	21	3	0	0	0	87.50	87.50	87.50
		X-RE	12	6	6	2	2	4	0	50.00	66.67	66.67
		X-10RIO	1	0	0	0	0	1	0	.00	.00	.00
		X-9RIO	11	0	0	11	11	0	0	.00	100.00	100.00
B-O	B14.10	X-11RIO	8	0	0	0	0	8	0	.00	.00	.00
C-A	C1.10	X-2P	1	0	0	1	1	0	0	.00	100.00	100.00
	C1.20	X-1P	1	1	1	0	0	0	0	100.00	100.00	100.00
C-B	C2.21	X-1P	2	2	2	0	0	0	0	100.00	100.00	100.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
C-B	C2.21	X-2P	2	0	0	2	2	0	0	.00	100.00	100.00
	C2.22	X-1P	1	1	1	0	0	0	0	100.00	100.00	100.00
		X-2P	1	0	0	1	1	0	0	.00	100.00	100.00
C-C	C3.10	X-2P	4	0	0	4	4	0	0	.00	100.00	100.00
	C3.20	X-1P	8	8	8	0	0	0	0	100.00	100.00	100.00
		X-3P	12	0	0	0	0	12	0	.00	.00	.00
C-F-1	C5.11	X-1P	2	2	2	0	0	0	0	100.00	100.00	100.00
		X-2P	10	0	0	10	10	0	0	.00	100.00	100.00
		X-3P	14	0	0	0	0	14	0	.00	.00	.00
	C5.12	X-2P	2	0	0	2	2	0	0	.00	100.00	100.00
C-F-2	C5.51	X-EOI	4	1	1	3	3	0	0	25.00	100.00	100.00
		X-1P	52	52	52	0	0	0	0	100.00	100.00	100.00
		X-2P	49	0	0	49	49	0	0	.00	100.00	100.00
		X-3P	43	0	0	0	0	43	0	.00	.00	.00
C-G	C6.10	X-1P	4	4	4	0	0	0	0	100.00	100.00	100.00
		X-2P	6	0	0	6	6	0	0	.00	100.00	100.00
		X-3P	5	0	0	0	0	5	0	.00	.00	.00
D-A	D1.20	X-1P	2	2	2	0	0	0	0	100.00	100.00	100.00
		X-2P	3	0	0	3	3	0	0	.00	100.00	100.00
		X-3P	3	0	0	0	0	3	0	.00	.00	.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
F-A	F1.10A	X-1P	3	3	3	0	0	0	0	100.00	100.00	100.00
		X-2P	3	0	0	3	3	0	0	.00	100.00	100.00
		X-3P	1	0	0	0	0	1	0	.00	.00	.00
	F1.10R	X-1P	4	4	4	0	0	0	0	100.00	100.00	100.00
		X-2P	5	0	0	5	5	0	0	.00	100.00	100.00
		X-3P	4	0	0	0	0	4	0	.00	.00	.00
	F1.10S	X-1P	14	14	14	0	0	0	0	100.00	100.00	100.00
		X-2P	14	0	0	14	14	0	0	.00	100.00	100.00
		X-3P	20	0	0	0	0	20	0	.00	.00	.00
	F1.20A	X-2P	2	0	0	2	2	0	0	.00	100.00	100.00
		X-3P	3	0	0	0	0	3	0	.00	.00	.00
	F1.20R	X-1P	16	16	16	0	0	0	0	100.00	100.00	100.00
		X-2P	15	0	0	15	15	0	0	.00	100.00	100.00
		X-3P	15	0	0	0	0	15	0	.00	.00	.00
	F1.20S	X-1P	15	15	15	0	0	0	0	100.00	100.00	100.00
		X-2P	7	0	0	7	7	0	0	.00	100.00	100.00
		X-3P	13	0	0	0	0	13	0	.00	.00	.00
	F1.30A	X-2P	1	0	0	1	1	0	0	.00	100.00	100.00
		X-3P	3	0	0	0	0	3	0	.00	.00	.00
	F1.30R	X-1P	7	7	7	0	0	0	0	100.00	100.00	100.00

REPORT DATE: 06/19/99

SUSQUEHANNA STEAM ELECTRIC STATION -- UNIT 2 -- CODE COMPLIANCE REPORT
(UPON COMPLETION OF THE 9TH RFO)
(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	2ND INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C	2ND PER SCHED	2ND PER P/C	3RD PER SCHED	3RD PER P/C	% 1ST PER OVER 2ND INT	% 1ST & 2ND OVER 2ND INT	% 1ST - 2ND & 3RD PER OVER 2ND INT
F-A	F1.30R	X-2P	10	0	0	10	10	0	0	.00	100.00	100.00
		X-3P	7	0	0	0	0	7	0	.00	.00	.00
	F1.30S	X-1P	7	7	7	0	0	0	0	100.00	100.00	100.00
		X-2P	3	0	0	3	3	0	0	.00	100.00	100.00
		X-3P	3	0	0	0	0	3	0	.00	.00	.00
	F1.40	X-1P	4	4	4	0	0	0	0	100.00	100.00	100.00
		X-11RIO	3	0	0	0	0	3	0	.00	.00	.00
		X-2P	9	0	0	9	9	0	0	.00	100.00	100.00
		X-3P	5	0	0	0	0	5	0	.00	.00	.00
		X-8RIO	2	2	2	0	0	0	0	100.00	100.00	100.00
		X-9RIO	4	0	0	4	4	0	0	.00	100.00	100.00
TOTAL			2975	1003	1003	947	940	1025	0	******	******	******

REPORT DATE: 06/19/99

APPENDIX B

ASME SECTION XI AND AUGMENTED EXAMINATION DETAILED LISTING

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG1 ITEM: AUG1

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
DBB2141-1-B VOL	P-E	X-EOI	P-24	HPCI	529015	4/17/99	Y	NRI
DBB2141-1-C VOL	E-P	X-EOI	P-24	HPCI	529016	4/17/99	Y	NRI
DBB2141-1-F VOL	P-E	X-EOI	P-23	HPCI	529017	4/17/99	Y	NRI
DBB2191-FW-4 VOL	V-E	X-EOI	P-40	HPCI	529018	4/17/99	Y	NRI
DBB2191-1-C VOL	P-T	X-EOI	P-40	HPCI	529019	4/23/99	Y	NRI
DBB2191-1-D VOL	E-P	X-EOI	P-40	HPCI	529020	4/17/99	Y	NRI

TALLY ITEM AUG1 6
TALLY CDECAT AUG1 6

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG2 ITEM: CAT-B

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DBB2071-1-B VOL	E-P	X-2P	A	RHR	499038 96-009	6/4/99	Y	NRI
DCA2101-FW-2 VOL	V-FH	X-2P	P-67	RHR	499001 99-033	00/00/00	Y	NRI
DCA2102-FW-2 VOL	V-FH	X-2P	P-67	RHR	499002	4/13/99	Y	NRI
VRRB313-FW-A-1 VOL	SE-P	X-2P	P-79	RR	649001	4/10/99	Y	NRI
VRRB313-FW-A-11 VOL	SWOL-P	X-2P	P-93	RR	649003	5/11/99	Y	2-ID GEOMETRY ACCEPT
VRRB313-FW-A-14 VOL	SWOL-P	X-2P	P-93	RR	649004	4/10/99	Y	1-ID GEOMETRY ACCEPT
VRRB313-FW-A-2 VOL	P-P	X-2P	P-79	RR	649005	4/14/99	Y	NRI
VRRB313-FW-A-3 VOL	E-V	X-2P	P-81	RR	649006	4/10/99	Y	1-ID GEOMETRY ACCEPT
VRRB313-FW-A-33 VOL	T-V	X-2P	P-81	RR	649007 99-022	00/00/00	Y	NRI
VRRB313-FW-A-5 VOL	E-PU	X-2P	P-81	RR	649009 99-021	5/11/99	Y	NRI
VRRB313-10-B VOL	P-E	X-2P	P-79	RR	649010	4/14/99	Y	NRI
VRRB313-2-A VOL	E-P	X-2P	P-80	RR	649011	4/14/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG2 ITEM: CAT-B

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VRRB313-3-F VOL	CR-PB	X-2P	P-58	RR	649012	4/14/99	Y	NRI
VRRB313-9-A VOL	P-E	X-2P	P-79	RR	649013	4/10/99	Y	NRI
VRRB313-9-B VOL	E-P	X-2P	P-79	RR	649014	4/14/99	Y	NRI
VRRB314-FW-B-1 VOL	SE-P	X-2P	P-79	RR	649015	5/28/99	Y	1-ROOT GEOMETRY ACCEPT
VRRB314-FW-B-14 VOL	SWOL-P	X-2P	P-93	RR	649002 99-011	4/16/99	Y	2-ID GEOMETRY ACCEPT
VRRB314-FW-B-20 VOL	SWOL-P	X-2P	P-79	RR	649016	4/14/99	Y	NRI
VRRB314-FW-B-3 VOL	E-V	X-2P	P-81	RR	649017	4/5/99	Y	NRI
VRRB314-FW-B-5 VOL	E-PU	X-2P	P-81	RR	649019	5/11/99	Y	NRI
VRRB314-1-A VOL	P-E	X-2P	P-79	RR	649020 95-075	4/13/99	Y	NRI
VRRB314-10-B VOL	P-SWOL	X-2P	P-79	RR	649021 99-024	00/00/00	Y	NRI
VRRB314-10-C VOL	P-T	X-2P	P-80	RR	649022 95-075	4/14/99	Y	NRI
VRRB314-12-A VOL	P-SWOL	X-2P	P-79	RR	649023 99-024	00/00/00	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG2 ITEM: CAT-B

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
VRRB314-9-2-B VOL	PB-SWOL	X-2P	P-58	RR	649067 98-008	4/14/99	Y	NRI
DCA2021-FW-1 VOL	T-P	X-2P	P-05	RWCU	619001	4/17/99	Y	NRI

TALLY ITEM CAT-B 26

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG2 ITEM: MSIP

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DBB2071-FW-3 VOL	P-V	X-9RIO	P-64	RHR	499003	6/4/99	Y	ROOT GEOMETRY ACCEPT
DBB2072-FW-3 VOL	P-V	X-9RIO	P-64	RHR	499004	4/17/99	Y	NRI
DBB2072-1-D VOL	E-P	X-9RIO	P-64	RHR	499005	4/13/99	Y	NRI
DCA2081-FW-11 VOL	V-E	X-9RIO	P-56 B	RHR	499006	4/13/99	Y	NRI
DCB2021-FW-4 VOL	FH-E	X-9RIO	P-13 A	RHR	499008	4/14/99	Y	NRI
HBB2111-1-A VOL	E-RED	X-9RIO	P-49 B	RHR	499009	4/6/99	Y	NRI
N1B NOZ-SE VOL	NOZ-SE	X-9RIO	V-30 B	RPV-E	629024 98-041	6/4/99	Y	NRI
N2B NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629026 98-041	5/28/99	Y	NRI
N2C NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629028 98-041	5/28/99	Y	NRI
N2D NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629030 98-041	6/4/99	Y	NRI
N2E NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629032 98-041	6/4/99	Y	NRI
N2G NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 A	RPV-E	629034 98-041	6/4/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG2 ITEM: MSIP

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2H NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 A	RPV-E	629036 98-041	6/4/99	Y	NRI
N5A NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629126	5/28/99	Y	2-ID/RT GMTRY ACCEPT
N5A SE-SEXT VOL	SE EXT-SE	X-9RIO	V-15 B	RPV-E	629117 98-041	4/17/99	Y	NRI
N5B NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 A	RPV-E	629001 98-041	5/28/99	Y	3-ROOT GEOMETRY ACCEPT
N5B SE-SEXT VOL	SE EXT-SE	X-9RIO	V-15 A	RPV-E	629119 98-041	4/17/99	Y	NRI
N8A NOZ-SE VOL	NOZ-SE	X-9RIO	BI A	RPV-E	629002 98-041	4/17/99	Y	NRI
N8A SE-PEN SEAL VOL	SE-PEN SEAL	X-9RIO	P-13 A	RPV-E	629121 98-041	4/16/99	Y	NRI
N8B NOZ-SE VOL	NOZ-SE	X-9RIO	BI B	RPV-E	629003 98-041	4/16/99	Y	NRI
N8B SE-PEN SEAL VOL	SE-PEN SEAL	X-9RIO	P-13 B	RPV-E	629004 98-041	4/10/99	Y	NRI
N9 NOZ-CAP VOL	NOZ-CP	X-9RIO	V-24	RPV-E	629153 99-018	4/17/99	Y	NRI
VRRB313-10-C VOL	P-P	X-9RIO	P-80	RR	649024	6/4/99	Y	2-ID GEOMETRY ACCEPT

TALLY ITEM MSIP 23
TALLY CDECAT AUG2 49

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4A SPARG NOZ 1J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629200 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629201 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629202 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629203 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629204 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629205 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629206 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629207 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 1T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629208 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629209 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629210 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629211 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4A SPARG NOZ 2M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629212 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629213 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629214 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629215 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629216 96-055	4/2/99	Y	NRI
N4A SPARG NOZ 2T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629217 96-055	4/2/99	Y	NRI
N4A SPARG WELD A VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629218 96-055	4/2/99	Y	NRI
N4A SPARG WELD B VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629219 96-055	4/2/99	Y	NRI
N4A SPARG WELD C VT-3	TEE-SPARG	X-9RIO		RPV-I	629220 96-055	4/2/99	Y	NRI
N4A SPARG WELD D VT-3	TEE-SPARG	X-9RIO		RPV-I	629221 96-055	4/2/99	Y	NRI
N4A SPARG WELD E VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629222 96-055	4/2/99	Y	NRI
N4A SPARG WELD F VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629223 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK / CR NO	SYSTEM	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4B SPARG NOZ 1J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629224 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629225 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629226 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629227 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629228 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629229 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629230 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629231 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 1T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629232 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629233 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629234 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629235 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4B SPARG NOZ 2M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629236 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629237 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629238 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629239 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629240 96-055	4/2/99	Y	NRI
N4B SPARG NOZ 2T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629241 96-055	4/2/99	Y	NRI
N4B SPARG WELD A VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629242 96-055	4/2/99	Y	NRI
N4B SPARG WELD B VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629243 96-055	4/2/99	Y	NRI
N4B SPARG WELD C VT-3	TEE-SPARG	X-9RIO		RPV-I	629244 96-055	4/2/99	Y	NRI
N4B SPARG WELD D VT-3	TEE-SPARG	X-9RIO		RPV-I	629245 96-055	4/2/99	Y	NRI
N4B SPARG WELD E VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629246 96-055	4/2/99	Y	NRI
N4B SPARG WELD F VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629247 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4C SPARG NOZ 1J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629248 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629249 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629250 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629251 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629252 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629253 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629254 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629255 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 1T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629256 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629257 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629258 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629259 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4C SPARG NOZ 2M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629260 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629261 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629262 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629263 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629264 96-055	4/2/99	Y	NRI
N4C SPARG NOZ 2T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629265 96-055	4/2/99	Y	NRI
N4C SPARG WELD A VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629266 96-055	4/2/99	Y	NRI
N4C SPARG WELD B VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629267 96-055	4/2/99	Y	NRI
N4C SPARG WELD C VT-3	TEE-SPARG	X-9RIO		RPV-I	629268 96-055	4/2/99	Y	NRI
N4C SPARG WELD D VT-3	TEE-SPARG	X-9RIO		RPV-I	629269 96-055	4/2/99	Y	NRI
N4C SPARG WELD E VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629270 96-055	4/2/99	Y	NRI
N4C SPARG WELD F VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629271 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK / CR NO	SYSTEM	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4D SPARG NOZ 1J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629272 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629273 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629274 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629275 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629276 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629277 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629278 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629279 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 1T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629280 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2J VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629281 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2K VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629282 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2L VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629283 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4D SPARG NOZ 2M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629284 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629285 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629286 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629287 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629288 96-055	4/2/99	Y	NRI
N4D SPARG NOZ 2T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629289 96-055	4/2/99	Y	NRI
N4D SPARG WELD A VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629290 96-055	4/2/99	Y	NRI
N4D SPARG WELD B VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629291 96-055	4/2/99	Y	NRI
N4D SPARG WELD C VT-3	TEE-SPARG	X-9RIO		RPV-I	629292 96-055	4/2/99	Y	NRI
N4D SPARG WELD D VT-3	TEE-SPARG	X-9RIO		RPV-I	629293 96-055	4/2/99	Y	NRI
N4D SPARG WELD E VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629294 96-055	4/2/99	Y	NRI
N4D SPARG WELD F VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629295 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4E SPARG NOZ 1J VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629296 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1K VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629297 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1L VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629298 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1M VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629299 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1N VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629300 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1P VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629301 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1R VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629302 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1S VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629303 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 1T VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629304 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2J VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629305 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2K VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629306 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2L VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629307 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4E SPARG NOZ 2M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629308 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629309 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629310 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629311 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629312 96-055	4/2/99	Y	NRI
N4E SPARG NOZ 2T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629313 96-055	4/2/99	Y	NRI
N4E SPARG WELD A VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629314 96-055	4/2/99	Y	NRI
N4E SPARG WELD B VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629315 96-055	4/2/99	Y	NRI
N4E SPARG WELD C VT-3	TEE-SPARG	X-9RIO		RPV-I	629316 96-055	4/2/99	Y	NRI
N4E SPARG WELD D VT-3	TEE-SPARG	X-9RIO		RPV-I	629317 96-055	4/2/99	Y	NRI
N4E SPARG WELD E VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629318 96-055	4/2/99	Y	NRI
N4E SPARG WELD F VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629319 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4F SPARG NOZ 1J VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629320 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1K VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629321 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1L VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629322 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1M VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629323 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1N VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629324 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1P VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629325 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1R VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629326 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1S VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629327 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 1T VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629328 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2J VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629329 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2K VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629330 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2L VT-3	SPARG NOZ WELD	X-9RIO	RPV-I	629331 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4F SPARG NOZ 2M VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629332 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2N VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629333 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2P VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629334 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2R VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629335 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2S VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629336 96-055	4/2/99	Y	NRI
N4F SPARG NOZ 2T VT-3	SPARG NOZ WELD	X-9RIO		RPV-I	629337 96-055	4/2/99	Y	NRI
N4F SPARG WELD A VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629338 96-055	4/2/99	Y	NRI
N4F SPARG WELD B VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629339 96-055	4/2/99	Y	NRI
N4F SPARG WELD C VT-3	TEE-SPARG	X-9RIO		RPV-I	629340 96-055	4/2/99	Y	NRI
N4F SPARG WELD D VT-3	TEE-SPARG	X-9RIO		RPV-I	629341 96-055	4/2/99	Y	NRI
N4F SPARG WELD E VT-3	SPARG-SPARG END	X-9RIO		RPV-I	629342 96-055	4/2/99	Y	NRI
N4F SPARG WELD F VT-3	SPARG END-BRKT	X-9RIO		RPV-I	629343 96-055	4/2/99	Y	NRI

TALLY ITEM AUG3 144

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG3 ITEM: AUG3

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANI SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
TALLY CDECAT AUG3	144							

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DRY TUBE 16-13 VT-3	INCORE DRY TUBE	X-RO		RPV-I	629344 96-055	4/2/99	Y	NRI
DRY TUBE 16-45 VT-3	INCORE DRY TUBE	X-RO		RPV-I	629345 96-055	4/2/99	Y	NRI
DRY TUBE 16-53 VT-3	INCORE DRY TUBE	X-RO		RPV-I	629346 96-055	4/2/99	Y	NRI
DRY TUBE 24-37 VT-3	INCORE DRY TUBE	X-RO		RPV-I	629347 96-055	4/2/99	Y	NRI
DRY TUBE 32-37 VT-3	INCORE DRY TUBE	X-RO		RPV-I	629348 96-055	4/2/99	Y	NRI
DRY TUBE 40-45 VT-3	INCORE DRY TUBE	X-RO		RPV-I	629349 96-055	4/2/99	Y	NRI
DRYER SUPT RING HOR VT-3	HORIZONTAL FACE	X-RE		RPV-I	629350 96-055	4/2/99	Y	LINEAR ACCEPT
DRYER SUPT RING VER VT-3	VERTICAL FACE	X-RE		RPV-I	629351 96-055	4/2/99	Y	NRI
DRYER WELD DC-A-1 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629352 96-055	4/2/99	Y	NRI
DRYER WELD DC-A-2 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629353 96-055	4/2/99	Y	NRI
DRYER WELD DC-A-3 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629354 96-055	4/2/99	Y	NRI
DRYER WELD DC-B-1 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629355 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DRYER WELD DC-B-2 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629356 96-055	4/2/99	Y	NRI
DRYER WELD DC-B-3 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629357 96-055	4/2/99	Y	NRI
DRYER WELD DC-C-1 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629358 96-055	4/2/99	Y	NRI
DRYER WELD DC-C-2 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629359 96-055	4/2/99	Y	NRI
DRYER WELD DC-C-3 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629360 96-055	4/2/99	Y	NRI
DRYER WELD DC-D-1 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629361 96-055	4/2/99	Y	NRI
DRYER WELD DC-D-2 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629362 96-055	4/2/99	Y	NRI
DRYER WELD DC-D-3 VT-3	DRAIN CHAN WELD	X-RE		RPV-I	629363 96-055	4/2/99	Y	NRI
DRYER WELD HE-A-1 VT-3	HOOD/END PANEL	X-RE		RPV-I	629364 96-055	4/2/99	Y	NRI
DRYER WELD HE-A-2 VT-3	HOOD/END PANEL	X-RE		RPV-I	629365 96-055	4/2/99	Y	NRI
DRYER WELD HE-B-1 VT-3	HOOD/END PANEL	X-RE		RPV-I	629366 96-055	4/2/99	Y	NRI
DRYER WELD HE-B-2 VT-3	HOOD/END PANEL	X-RE		RPV-I	629367 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DRYER WELD HE-C-1 VT-3	HOOD/END PANEL	X-RE		RPV-I	629368 96-055	4/2/99	Y	NRI
DRYER WELD HE-C-2 VT-3	HOOD/END PANEL	X-RE		RPV-I	629369 96-055	4/2/99	Y	NRI
DRYER WELD HE-D-1 VT-3	HOOD/END PANEL	X-RE		RPV-I	629370 96-055	4/2/99	Y	NRI
DRYER WELD HE-D-2 VT-3	HOOD/END PANEL	X-RE		RPV-I	629371 96-055	4/2/99	Y	NRI
DRYER WELD HE-E-1 VT-3	HOOD/END PANEL	X-RE		RPV-I	629372 96-055	4/2/99	Y	NRI
DRYER WELD HE-E-2 VT-3	HOOD/END PANEL	X-RE		RPV-I	629373 96-055	4/2/99	Y	NRI
DRYER WELD HE-F-1 VT-3	HOOD/END PANEL	X-RE		RPV-I	629374 96-055	4/2/99	Y	NRI
DRYER WELD HE-F-2 VT-3	HOOD/END PANEL	X-RE		RPV-I	629375 96-055	4/2/99	Y	NRI
DRYER WELD TR-A-1/2 VT-1	CAPTURE PLATE	X-RE		RPV-I	629376 96-055	4/2/99	Y	NRI
DRYER WELD TR-A-3/4 VT-1	CAPTURE PLATE	X-RE		RPV-I	629377 96-055	4/2/99	Y	NRI
DRYER WELD TR-A-5/6 VT-1	CAPTURE PLATE	X-RE		RPV-I	629378 96-055	4/2/99	Y	NRI
DRYER WELD TR-A-7/8 VT-1	CAPTURE PLATE	X-RE		RPV-I	629379 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DRYER WELD TR-B-1/2 VT-1	CAPTURE PLATE	X-RE		RPV-I	629380 96-055	4/2/99	Y	NRI
DRYER WELD TR-B-3/4 VT-1	CAPTURE PLATE	X-RE		RPV-I	629381 96-055	4/2/99	Y	NRI
DRYER WELD TR-B-5/6 VT-1	CAPTURE PLATE	X-RE		RPV-I	629382 96-055	4/2/99	Y	NRI
DRYER WELD TR-B-7/8 VT-1	CAPTURE PLATE	X-RE		RPV-I	629383 96-055	4/2/99	Y	NRI
DRYER WELD TR-C-1/2 VT-1	CAPTURE PLATE	X-RE		RPV-I	629384 96-055	4/2/99	Y	NRI
DRYER WELD TR-C-3/4 VT-1	CAPTURE PLATE	X-RE		RPV-I	629385 96-055	4/2/99	Y	NRI
DRYER WELD TR-C-5/6 VT-1	CAPTURE PLATE	X-RE		RPV-I	629386 96-055	4/2/99	Y	NRI
DRYER WELD TR-C-7/8 VT-1	CAPTURE PLATE	X-RE		RPV-I	629387 96-055	4/2/99	Y	NRI
DRYER WELD TR-D-1/2 VT-1	CAPTURE PLATE	X-RE		RPV-I	629388 96-055	4/2/99	Y	NRI
DRYER WELD TR-D-3/4 VT-1	CAPTURE PLATE	X-RE		RPV-I	629389 96-055	4/2/99	Y	NRI
DRYER WELD TR-D-5/6 VT-1	CAPTURE PLATE	X-RE		RPV-I	629390 96-055	4/2/99	Y	NRI
DRYER WELD TR-D-7/8 VT-1	CAPTURE PLATE	X-RE		RPV-I	629391 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DRYER WELD TR-E-1/2 VT-1	CAPTURE PLATE	X-RE		RPV-I	629392 96-055	4/2/99	Y	NRI
DRYER WELD TR-E-3/4 VT-1	CAPTURE PLATE	X-RE		RPV-I	629393 96-055	4/2/99	Y	NRI
DRYER WELD TR-E-5/6 VT-1	CAPTURE PLATE	X-RE		RPV-I	629394 96-055	4/2/99	Y	NRI
DRYER WELD TR-E-7/8 VT-1	CAPTURE PLATE	X-RE		RPV-I	629395 96-055	4/2/99	Y	NRI
DRYER WELD TR-F-1/2 VT-1	CAPTURE PLATE	X-RE		RPV-I	629396 96-055	4/2/99	Y	NRI
DRYER WELD TR-F-3/4 VT-1	CAPTURE PLATE	X-RE		RPV-I	629397 96-055	4/2/99	Y	NRI
DRYER WELD TR-F-5/6 VT-1	CAPTURE PLATE	X-RE		RPV-I	629398 96-055	4/2/99	Y	NRI
DRYER WELD TR-F-7/8 VT-1	CAPTURE PLATE	X-RE		RPV-I	629399 96-055	4/2/99	Y	NRI
JT PMP 13 INST LINE VT-3	WELDS/SUPPORTS	X-RE	A	RPV-I	629408 96-055	4/7/99	Y	NRI
JT PMP 14 INST LINE VT-3	WELDS/SUPPORTS	X-RE	A	RPV-I	629409 96-055	4/7/99	Y	NRI
N2F JP11 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO		RPV-I	629473	4/7/99	Y	NRI
N2F JP11 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO		RPV-I	629474	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / CAL BLOCK LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2F JP12 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO	RPV-I	629475	4/7/99	Y	NRI
N2F JP12 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO	RPV-I	629476	4/7/99	Y	NRI
N2F RISR PIPE RS1 VT-1E	AT INLET ELBOW	X-9RIO	RPV-I	629478	4/7/99	Y	NRI
N2F RISR PIPE RS2 VT-1E	AT INLET ELBOW	X-9RIO	RPV-I	629456	4/7/99	Y	NRI
N2F RISR PIPE RS3 VT-1E	TO TRANSITION PIECE	X-9RIO	RPV-I	629480	4/7/99	Y	NRI
N2G JP13 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO	RPV-I	629483	4/7/99	Y	NRI
N2G JP13 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO	RPV-I	629484	4/7/99	Y	NRI
N2G JP14 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO	RPV-I	629485	4/10/99	Y	NRI
N2G JP14 DIFFUS DF2 VT-1E	DIFFUSER TO TIALPIPE	X-9RIO	RPV-I	629486	4/7/99	Y	NRI
N2G RISR PIPE RS1 VT-1E	AT INLET ELBOW	X-9RIO	RPV-I	629487	4/7/99	Y	NRI
N2G RISR PIPE RS2 VT-1E	AT INLET ELBOW	X-9RIO	RPV-I	629488	4/7/99	Y	NRI
N2G RISR PIPE RS3 VT-1E	TO TRANSITION PIECE	X-9RIO	RPV-I	629489	4/7/99	Y	NRI

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2H JP15 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO		RPV-I	629492	4/7/99	Y	NRI
N2H JP15 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO		RPV-I	629493	4/7/99	Y	NRI
N2H JP16 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO		RPV-I	629494	4/7/99	Y	NRI
N2H JP16 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO		RPV-I	629495	4/7/99	Y	NRI
N2H RISR PIPE RS1 VT-1E	AT INLET ELBOW	X-9RIO		RPV-I	629501	4/7/99	Y	NRI
N2H RISR PIPE RS2 VT-1E	AT INLET ELBOW	X-9RIO		RPV-I	629502	4/7/99	Y	NRI
N2H RISR PIPE RS3 VT-1E	TO TRANSITION PIECE	X-9RIO		RPV-I	629503	4/7/99	Y	NRI
N2J JP17 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO		RPV-I	629504	4/7/99	Y	NRI
N2J JP17 DIFFUS DF1 VT-1E	COLLAR TO DIFFUSER	X-9RIO		RPV-I	629505	4/7/99	Y	NRI
N2J JP17 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO		RPV-I	629506	4/7/99	Y	NRI
N2J JP17 IN4 VT-1E	INLET TO MIXER	X-9RIO		RPV-I	629507	4/7/99	Y	NRI
N2J JP17 MX2 VT-1E	MIXER TO BARREL	X-9RIO		RPV-I	629508	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2J JP17 RESTRN WD1 VT-1E	JET PUMP RESTRAINER	X-9RIO		RPV-I	629509	4/7/99	Y	NRI
N2J JP18 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO		RPV-I	629510	4/7/99	Y	NRI
N2J JP18 DIFFUS DF1 VT-1E	COLLAR TO DIFFUSER	X-9RIO		RPV-I	629511	4/7/99	Y	NRI
N2J JP18 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO		RPV-I	629512	4/7/99	Y	NRI
N2J JP18 IN4 VT-1E	INLET TO MIXER	X-9RIO		RPV-I	629513	4/7/99	Y	NRI
N2J JP18 MX2 VT-1E	MIXER BARREL	X-9RIO		RPV-I	629514	4/7/99	Y	NRI
N2J JP18 RESTRN WD1 VT-1E	JET PUMP RESTRAINER	X-9RIO		RPV-I	629515	4/7/99	Y	NRI
N2J RISR BRACE RB1A VT-1E	TO VESSEL UPPER RIGHT	X-9RIO		RPV-I	629521	4/7/99	Y	NRI
N2J RISR BRACE RB1B VT-1E	TO VESSEL UPPER LEFTT	X-9RIO		RPV-I	629522	4/7/99	Y	NRI
N2J RISR BRACE RB1C VT-1E	TO VESSEL UPPER RIGHT	X-9RIO		RPV-I	629523	4/7/99	Y	NRI
N2J RISR BRACE RB1D VT-1E	TO VESSEL UPPER LEFT	X-9RIO		RPV-I	629524	4/7/99	Y	NRI
N2J RISR BRACE RB2A VT-1E	YOKE UPPER RIGHT	X-9RIO		RPV-I	629525	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2J RISR BRACE RB2B VT-1E	YOKE UPPER LEFTT	X-9RIO		RPV-I	629526	4/7/99	Y	NRI
N2J RISR BRACE RB2C VT-1E	YOKE LOWER LEFT	X-9RIO		RPV-I	629527	4/7/99	Y	NRI
N2J RISR BRACE RB2D VT-1E	YOKE LOWER RIGHT	X-9RIO		RPV-I	629528	4/7/99	Y	NRI
N2J RISR BRACE RS8 VT-1E	CIRC TOP WELD	X-9RIO		RPV-I	629529	4/7/99	Y	NRI
N2J RISR BRACE RS9 VT-1E	CIRC BOTTOM WELD	X-9RIO		RPV-I	629530	4/7/99	Y	NRI
N2J RISR PIPE RS1 VT-1E	AT INLET ELBOW	X-9RIO		RPV-I	629531	4/7/99	Y	NRI
N2J RISR PIPE RS2 VT-1E	AT INLET ELBOW	X-9RIO		RPV-I	629532	4/7/99	Y	NRI
N2J RISR PIPE RS3 VT-1E	TO TRANSITION PIECE	X-9RIO		RPV-I	629533	4/7/99	Y	NRI
N2J RISR PIPE RS6 VT-1E	TO RESTRAINER (LEFT)	X-9RIO		RPV-I	629534	4/7/99	Y	NRI
N2J RISR PIPE RS7 VT-1E	TO RESTRAINER (RIGHT)	X-9RIO		RPV-I	629535	4/7/99	Y	NRI
N2K JP19 ADAPT AD2 VT-1E	ADAPTER TP BAFFLE PL	X-9RIO		RPV-I	629537	4/7/99	Y	NRI
N2K JP19 DIFFUS DF1 VT-1E	COLAR TO DIFFUSER	X-9RIO		RPV-I	629538	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2K JP19 DIFFUS DF2 VT-1E	COLAR TO DIFFUSER	X-9RIO		RPV-I	629539	4/7/99	Y	NRI
N2K JP19 IN4 VT-1E	INLET TO MIXER	X-9RIO		RPV-I	629540	4/7/99	Y	NRI
N2K JP19 MX2 VT-1E	MIXER BARREL	X-9RIO		RPV-I	629541	4/7/99	Y	NRI
N2K JP19 RESTRN WD1 VT-1E	JET PUMP RESTRAINER	X-9RIO		RPV-I	629542	4/7/99	Y	NRI
N2K JP20 ADAPT AD2 VT-1E	ADAPTER TO BAFFLE PL	X-9RIO		RPV-I	629543	4/7/99	Y	NRI
N2K JP20 DIFFUS DF1 VT-1E	COLLAR TO DIFFUSER	X-9RIO		RPV-I	629544	4/7/99	Y	NRI
N2K JP20 DIFFUS DF2 VT-1E	DIFFUSER TO TAILPIPE	X-9RIO		RPV-I	629545	4/7/99	Y	NRI
N2K JP20 IN4 VT-1E	INLET TO MIXER	X-9RIO		RPV-I	629546	4/7/99	Y	NRI
N2K JP20 MX2 VT-1E	MIXER BARREL	X-9RIO		RPV-I	629547	4/7/99	Y	NRI
N2K JP20 RESTRN WD1 VT-1E	JET PUMP RESTRAINER	X-9RIO		RPV-I	629548	4/7/99	Y	NRI
N2K RISR BRACE RB1A VT-1E	TO VESSEL UPPER RIGHT	X-9RIO		RPV-I	629645	4/7/99	Y	NRI
N2K RISR BRACE RB1B VT-1E	TO VESSEL UPPER LEFT	X-9RIO		RPV-I	629646	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2K RISR BRACE RB1C VT-1E	TO VESSEL LOWER RIGHT	X-9RIO	RPV-I	629647	4/7/99	Y	NRI
N2K RISR BRACE RB1D VT-1E	TO VESSEL LOWER LEFT	X-9RIO	RPV-I	629648	4/7/99	Y	NRI
N2K RISR BRACE RB2A VT-1E	YOKE UPPER RIGHT	X-9RIO	RPV-I	629649	4/7/99	Y	NRI
N2K RISR BRACE RB2B VT-1E	YOKE UPPER LEFT	X-9RIO	RPV-I	629650	4/7/99	Y	NRI
N2K RISR BRACE RB2C VT-1E	YOKE LOWER LEFT	X-9RIO	RPV-I	629651	4/7/99	Y	NRI
N2K RISR BRACE RB2D VT-1E	YOKE LOWER RIGHT	X-9RIO	RPV-I	629652	4/7/99	Y	NRI
N2K RISR BRACE RS8 VT-1E	CIRC TOP WELD	X-9RIO	RPV-I	629653	4/7/99	Y	NRI
N2K RISR BRACE RS9 VT-1E	CIRC BOTTOM WELD	X-9RIO	RPV-I	629654	4/7/99	Y	NRI
N2K RISR PIPE RS1 VT-1E	AT INLET ELBOW	X-9RIO	RPV-I	629550	4/7/99	Y	NRI
N2K RISR PIPE RS2 VT-1E	AT INLET ELBOW	X-9RIO	RPV-I	629551	4/7/99	Y	NRI
N2K RISR PIPE RS3 VT-1E	TO TRANSITION PIECE	X-9RIO	RPV-I	629552	4/7/99	Y	NRI
N2K RISR PIPE RS6 VT-1E	TO RESTRAINER (LEFT)	X-9RIO	RPV-I	629553	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK / CR NO	SYSTEM / INF	EXAM NO	ANII SIGN-OFF	P/C	IND / RESOLUTION
N2K RISR PIPE RS7 VT-1E	TO RESTRAINER (RIGHT)	X-9RIO		RPV-I	629554	4/7/99	Y	NRI
N4A SPARG BRKT 1 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629445 96-055	4/5/99	Y	NRI
N4A SPARG BRKT 2 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629446 96-055	4/5/99	Y	NRI
N4B SPARG BRKT 1 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629447 96-055	4/2/99	Y	NRI
N4B SPARG BRKT 2 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629448 96-055	4/2/99	Y	NRI
N4C SPARG BRKT 1 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629449 96-055	4/2/99	Y	NRI
N4C SPARG BRKT 2 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629450 96-055	4/2/99	Y	NRI
N4D SPARG BRKT 1 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629451 96-055	4/2/99	Y	NRI
N4D SPARG BRKT 2 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629452 96-055	4/2/99	Y	NRI
N4E SPARG BRKT 1 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629453 96-055	4/2/99	Y	NRI
N4E SPARG BRKT 2 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629454 96-055	4/2/99	Y	NRI
N4F SPARG BRKT 1 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629455 96-055	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N4F SPARG BRKT 2 VT-3	BRACKETS/PINS	X-9RIO		RPV-I	629457 96-055	4/2/99	Y	NRI
N5 SPARG SUP WLD 01 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629663	4/14/99	Y	NRI
N5 SPARG SUP WLD 02 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629664	4/14/99	Y	NRI
N5 SPARG SUP WLD 03 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629665	4/14/99	Y	NRI UES AS IS
N5 SPARG SUP WLD 04 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629666	4/14/99	Y	NRI
N5 SPARG SUP WLD 05 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629667	4/10/99	Y	NRI
N5 SPARG SUP WLD 06 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629668	4/10/99	Y	NRI
N5 SPARG SUP WLD 07 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629669	4/10/99	Y	NRI
N5 SPARG SUP WLD 08 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629670	4/10/99	Y	NRI
N5 SPARG SUP WLD 09 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629671	4/10/99	Y	NRI
N5 SPARG SUP WLD 10 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629672	4/10/99	Y	NRI
N5 SPARG SUP WLD 11 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629673	4/16/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5 SPARG SUP WLD 12 VT-1	CS SPRG SUP WLD	X-9RIO		RPV-I	629674	4/16/99	Y	NRI
N5 SPARG SUPPORT 01 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629675	4/10/99	Y	NRI
N5 SPARG SUPPORT 02 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629676	4/10/99	Y	NRI
N5 SPARG SUPPORT 03 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629677	4/10/99	Y	NRI
N5 SPARG SUPPORT 04 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629678	4/9/99	Y	NRI
N5 SPARG SUPPORT 05 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629679	4/10/99	Y	NRI
N5 SPARG SUPPORT 06 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629680	4/10/99	Y	NRI
N5 SPARG SUPPORT 07 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629681	4/10/99	Y	NRI
N5 SPARG SUPPORT 08 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629400	4/5/99	Y	NRI
N5 SPARG SUPPORT 09 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629683	4/10/99	Y	NRI
N5 SPARG SUPPORT 10 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629684	4/10/99	Y	NRI
N5 SPARG SUPPORT 11 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629685	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5 SPARG SUPPORT 12 VT-3	CS SPARGER SUP	X-9RIO		RPV-I	629686	4/10/99	Y	NRI
N5A BRKT WELD A VT-1	RPV ATTACH WELD	X-9RIO		RPV-I	629695 96-055	4/7/99	Y	NRI
N5A BRKT WELD B VT-1	RPV ATTACH WELD	X-9RIO		RPV-I	629696 96-055	4/7/99	Y	NRI
N5A BRKT WELD C VT-1	RPV ATTACH WELD	X-9RIO		RPV-I	629697	4/7/99	Y	NRI
N5A BRKT WELD D VT-1	RPV ATTACH WELD	X-9RIO		RPV-I	629659 96-055	4/7/99	Y	NRI
N5A HEADER BRKT 1 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629687 96-055	4/7/99	Y	NRI
N5A HEADER BRKT 2 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629688 96-055	4/7/99	Y	NRI
N5A HEADER BRKT 3 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629689 96-055	4/7/99	Y	NRI
N5A HEADER BRKT 4 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629690 96-055	4/7/99	Y	NRI
N5A P2 JUNC BOX CVR VT-1E	JUMCTION BOX COVER	X-9RIO		RPV-I	629555	4/6/99	Y	NRI
N5A P3 JUNC BX LEFT VT-1E	JUNCT BOX TO PIPE	X-9RIO		RPV-I	629556	4/6/99	Y	NRI
N5A P3 JUNC BX RGHT VT-1E	JUNCT BOX TO PIPE	X-9RIO		RPV-I	629557	4/6/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5A P4A ELBOW 7DEG VT-1E	TOP ELBOW-HORZ PIPE	X-9RIO		RPV-I	629558	4/6/99	Y	NRI
N5A P4A ELBW 170DEG VT-1E	TOP ELBOW-HORZ PIPE	X-9RIO		RPV-I	629559	4/6/99	Y	NRI
N5A P4B ELBOW 7DEG VT-1E	TOP ELBOW-VERT PIPE	X-9RIO		RPV-I	629560	4/6/99	Y	NRI
N5A P4B ELBW 170DEG VT-1E	TOP ELBOW-VERT PIPE	X-9RIO		RPV-I	629655	4/6/99	Y	NRI
N5A P4C ELBOW 7DEG VT-1E	BOT ELBOW-VERT PIPE	X-9RIO		RPV-I	629562	4/6/99	Y	NRI
N5A P4C ELBW 170DEG VT-1E	BOT ELBOW-VERT PIPE	X-9RIO		RPV-I	629563	4/6/99	Y	NRI
N5A P4D ELBOW 7DEG VT-1E	BOT ELBOW-HORZ PIPE	X-9RIO		RPV-I	629564	4/6/99	Y	NRI
N5A P4D ELBW 170DEG VT-1E	BOT ELBOW-HORZ PIPE	X-9RIO		RPV-I	629565	4/6/99	Y	NRI
N5A P5 COUPL 170DEG VT-1E	TOP COUPLING SLEEVE	X-9RIO		RPV-I	629566	4/6/99	Y	NRI
N5A P5 COUPL 7DEG VT-1E	TOP COUPLING SLEEVE	X-9RIO		RPV-I	629567	4/6/99	Y	NRI
N5A P6 COUPL 170DEG VT-1E	MID COUPLING SLEEVE	X-9RIO		RPV-I	629568	4/6/99	Y	NRI
N5A P6 COUPL 7DEG VT-1E	MID COUPLING SLEEVE	X-9RIO		RPV-I	629569	4/6/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK / CR NO	SYSTEM / INF	EXAM NO	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5A P7 COUPL 170DEG VT-1E	BOT COUPLING SLEEVE	X-9RIO		RPV-I	629570	4/6/99	Y	NRI
N5A P7 COUPL 7DEG VT-1E	BOT COUPLING SLEEVE	X-9RIO		RPV-I	629571	4/6/99	Y	NRI
N5A P8A COUPL 170 VT-1E	COLLAR AT PIPE	X-9RIO		RPV-I	629572	4/6/99	Y	NRI
N5A P8A COUPL 7 DEG VT-1E	COLLAR AT PIPE	X-9RIO		RPV-I	629573	4/6/99	Y	NRI
N5A P8B COUPL 7DEG VT-1E	COLLAR TO SHROUD	X-9RIO		RPV-I	629575	4/6/99	Y	NRI
N5A P8B COUPL170DEG VT-1E	COLLAR TO SHROUD	X-9RIO		RPV-I	629574	4/6/99	Y	NRI
N5A P9 SHRD 170DEG VT-1E	ID OF COLLAR	X-9RIO		RPV-I	629576	4/6/99	Y	NRI
N5A P9 SHRD 7DEG VT-1E	ID OF COLLAR	X-9RIO		RPV-I	629577	4/6/99	Y	NRI
N5A S1 T-BOX 170DEG VT-1E	N5A-D LOWER	X-9RIO		RPV-I	629578	4/10/99	Y	NRI
N5A S1 T-BOX 7DEG VT-1E	N5A-B LOWER	X-9RIO		RPV-I	629579	4/10/99	Y	NRI
N5A S2 170DEG LEFT VT-1E	N5A-D LOWER	X-9RIO		RPV-I	629580	4/10/99	Y	NRI
N5A S2 170DEG RIGHT VT-1E	N5A-D LOWER	X-9RIO		RPV-I	629581	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5A S2 7DEG LEFT VT-1E	N5A-B LOWER	X-9RIO		RPV-I	629582	4/10/99	Y	NRI
N5A S2 7DEG RIGHT VT-1E	N5A-B LOWER	X-9RIO		RPV-I	629583	4/10/99	Y	NRI
N5A-B S3A NOZZ VT-3	NOZZLE TO SPARGER PIPE	X-9RIO		RPV-I	629584	4/6/99	Y	NRI
N5A-B S3B NOZZ VT-3	NOZZLE TO OFIFICE	X-9RIO		RPV-I	629585	4/6/99	Y	NRI
N5A-B S3C NOZZ DRN VT-3	DRAIN TO SPARGER	X-9RIO		RPV-I	629586	4/6/99	Y	NRI
N5A-B S4 CAP 273DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629587	4/10/99	Y	NRI
N5A-B S4 CAP 87DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629588	4/10/99	Y	NRI
N5A-D S3A NOZZ VT-3	NOZZLE TO SPARGER PIPE	X-9RIO		RPV-I	629589	4/10/99	Y	NRI
N5A-D S3B NOZZ VT-3	NOZZLE TO ORIFICE	X-9RIO		RPV-I	629590	4/10/99	Y	NRI
N5A-D S3C NOZZ DRN VT-3	DRAIN TO SPARGER	X-9RIO		RPV-I	629591	4/10/99	Y	NRI
N5A-D S4 CAP 267DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629592	4/10/99	Y	NRI
N5A-D S4 CAP 93DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629593	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5B BRKT WELD A VT-1	RPV ATTACH WELD	X-9RIO		RPV-I	629594 96-055	4/10/99	Y	NRI
N5B BRKT WELD B VT-1	RPV ATTACH WELD	X-9RIO		RPV-I	629595 96-055	4/10/99	Y	NRI
N5B BRKT WELD C VT-1	RPV ATTACH WELD	X-EOI		RPV-I	629698 96-055	4/8/99	Y	NRI
N5B BRKT WELD D VT-1	RPV ATTACH WELD	X-EOI		RPV-I	629699 96-055	4/8/99	Y	NRI
N5B HEADER BRKT 1 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629691 96-055	4/10/99	Y	NRI
N5B HEADER BRKT 2 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629692 96-055	4/10/99	Y	NRI
N5B HEADER BRKT 3 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629693 96-055	4/6/99	Y	NRI
N5B HEADER BRKT 4 VT-1	BRACKET/BOLTS	X-9RIO		RPV-I	629694 96-055	4/8/99	Y	NRI
N5B P2 JUNC BOX CVR VT-1E	JUNCTION BOX COVER	X-9RIO		RPV-I	629596	4/2/99	Y	NRI
N5B P3 JUNC BX LEFT VT-1E	JUNCTION BOX TO PIPE	X-9RIO		RPV-I	629597	4/10/99	Y	NRI
N5B P3 JUNC BX RGHT VT-1E	JUNCTION BOX TO PIPE	X-9RIO		RPV-I	629598	4/2/99	Y	NRI
N5B P4A ELBW 187DEG VT-1E	TOP ELBOW-HORZ PIPE	X-9RIO		RPV-I	629599	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5B P4A ELBW 352DEG VT-1E	TOP ELBOW-HORZ PIPE	X-9RIO		RPV-I	629500	4/2/99	Y	NRI
N5B P4B ELBW 187DEG VT-1E	TOP ELBOW-VERT PIPE	X-9RIO		RPV-I	629601	4/2/99	Y	NRI
N5B P4B ELBW 352DEG VT-1E	TOP ELBOW-VERT PIPE	X-9RIO		RPV-I	629602	4/2/99	Y	NRI
N5B P4C ELBW 187DEG VT-1E	BOT ELBOW-VERT PIPE	X-9RIO		RPV-I	629603	4/2/99	Y	NRI
N5B P4C ELBW 352DEG VT-1	BOT ELBOW-VERT PIPE	X-9RIO		RPV-I	629604	4/2/99	Y	NRI
N5B P4D ELBW 187DEG VT-1E	BOT ELBOW-HORZ PIPE	X-9RIO		RPV-I	629605	4/2/99	Y	NRI
N5B P4D ELBW 352DEG VT-1E	BOT ELBOW-HORZ PIPE	X-9RIO		RPV-I	629606	4/2/99	Y	NRI
N5B P5 COUPL 187DEG VT-1E	TOP COUPLING SLEEVE	X-9RIO		RPV-I	629607	4/2/99	Y	NRI
N5B P5 COUPL 352DEG VT-1E	TOP COUPLING SLEEVE	X-9RIO		RPV-I	629608	4/2/99	Y	NRI
N5B P6 COUPL 187DEG VT-1E	MID COUPLING SLEEVE	X-9RIO		RPV-I	629609	4/2/99	Y	NRI
N5B P6 COUPL 352DEG VT-1E	MID COUPLING SLEEVE	X-9RIO		RPV-I	629610	4/2/99	Y	NRI
N5B P7 COUPL 187DEG VT-1E	BOT COUPLING SLEEVE	X-9RIO		RPV-I	629611	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / CAL BLOCK / LOOP	SYSTEM / CR NO / INF	EXAM NO	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5B P7 COUPL 352DEG VT-1E	BOT COUPLING SLEEVE	X-9RIO	RPV-I	629612	4/2/99	Y	NRI
N5B P8A COUP 187DEG VT-1E	COLLAR AT PIPE	X-9RIO	RPV-I	629613	4/2/99	Y	NRI
N5B P8A COUP 352DEG VT-1E	COLLAR AT PIPE	X-9RIO	RPV-I	629614	4/2/99	Y	NRI
N5B P8B COUP 187DEG VT-1	COLLAR TO SHROUD	X-9RIO	RPV-I	629615	4/2/99	Y	NRI
N5B P8B COUP 352DEG VT-1E	COLLAR TO SHROUD	X-9RIO	RPV-I	629616	4/2/99	Y	NRI
N5B P9 SHRD 187DEG VT-1E	ID OF COLLAR	X-9RIO	RPV-I	629617	4/2/99	Y	NRI
N5B P9 SHRD 352DEG VT-1E	ID OF COLLAR	X-9RIO	RPV-I	629618	4/2/99	Y	NRI
N5B S1 T-BOX 187DEG VT-1E	N5B-C UPPER	X-9RIO	RPV-I	629619	4/7/99	Y	NRI
N5B S1 T-BOX 352DEG VT-1E	N5B-A UPPER	X-9RIO	RPV-I	629620	4/7/99	Y	NRI
N5B S2 187DEG LEFT VT-1E	N5B-C UPPER	X-9RIO	RPV-I	629621	4/7/99	Y	NRI
N5B S2 187DEG RIGHT VT-1E	N5B-C UPPER	X-9RIO	RPV-I	629622	4/7/99	Y	NRI
N5B S2 352DEG LEFT VT-1E	N5B-A UPPER	X-9RIO	RPV-I	629623	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG6 ITEM: AUG6

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N5B S2 352DEG RIGHT VT-1E	N5B-A UPPER	X-9RIO		RPV-I	629624	4/7/99	Y	NRI
N5B-A S3A NOZZ VT-3	NOZZLE TO SPARGER PIPE	X-9RIO		RPV-I	629625	4/7/99	Y	NRI
N5B-A S3B NOZZ VT-3	NOZZLE TO ORIFICE	X-9RIO		RPV-I	629626	4/7/99	Y	NRI
N5B-A S3C NOZZ DRN VT-3	DRAIN TO SPARGER	X-9RIO		RPV-I	629627	4/7/99	Y	NRI
N5B-A S4 CAP 273DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629628	4/7/99	Y	NRI
N5B-A S4 CAP 87DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629629	4/7/99	Y	NRI
N5B-C S3A NOZZ VT-3	NOZZLE TO SPARGER PIPE	X-9RIO		RPV-I	629630	4/7/99	Y	NRI
N5B-C S3B NOZZ VT-3	DRAIN TO SPARGER	X-9RIO		RPV-I	629631	4/7/99	Y	NRI
N5B-C S3C NOZZ DRN VT-3	DRAIN TO SPARGER	X-9RIO		RPV-I	629632	4/7/99	Y	NRI
N5B-C S4 CAP 267DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629633	4/7/99	Y	NRI
N5B-C S4 CAP 93DEG VT-1E	SPARGER END CAP	X-9RIO		RPV-I	629634	4/7/99	Y	NRI

TALLY ITEM AUG6 263
TALLY CDECAT AUG6 263

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG8 ITEM: AUG8

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
SPDCA2162-FW-1 SUR	P-P	X-9RIO	B	RR	649025 97-074	5/7/99	Y	NRI
SPDCA2172-FW-10 SUR	P-P	X-9RIO	B	RR	649026 97-074	5/7/99	Y	NRI
SPDCA2183-FW-1 SUR	P-E SOL	X-9RIO	A	RR	649027	4/5/99	Y	NRI
SPDCA2184-FW-1 SUR	P-E SOL	X-9RIO	A	RR	649028	4/5/99	Y	NRI
SPDCA2192-FW-1 SUR	P-E SOL	X-9RIO	A	RR	649029	4/10/99	Y	NRI
SPDCA2194-FW-1 SUR	P-E SOL	X-9RIO	A	RR	649030	4/5/99	Y	NRI
SPDCA2203-FW-13 SUR	P-E SOL	X-9RIO	B	RR	649031	4/13/99	Y	NRI
SPDCA2205-FW-20 SUR	P-E SOL	X-9RIO	B	RR	649032	5/25/99	Y	NRI
SPDCA2215-FW-1 SUR	P-E-SOL	X-9RIO	B	RR	649034	4/17/99	Y	NRI
SPDCA2225-FW-1 SUR	P-P	X-9RIO	B	RR	649035 97-074	4/17/99	Y	NRI
SPDCA2233-FW-1 SUR	P-P	X-9RIO	A	RR	649036 97-074	4/13/99	Y	NRI
SPDCA2235-FW-1 SUR	P-P	X-9RIO	B	RR	649037 97-074	4/13/99	Y	NRI

TALLY ITEM AUG8 12

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: AUG8 ITEM: AUG8

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
TALLY CDECAT AUG8	12							

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-A ITEM: B1.21

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
AH (120-240) VOL	TPHEAD CIRC(120	X-9RIO	V-04	RPV-E	629005 98-041	4/29/99	Y	NRI
AJ VOL	BHEAD-CIRC	X-9RIO	V-01	RPV-E	629006 98-041	4/29/99	Y	NRI

TALLY ITEM B1.21 2

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-A ITEM: B1.22

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DA VOL	BHEAD MERID	X-9RIO	V-1	RPV-E	629007 99-029	4/29/99	Y	NRI
DB VOL	BHEAD MERID	X-9RIO	V-1	RPV-E	629008 99-029	4/28/99	Y	NRI
DC VOL	BHEAD MERID	X-9RIO	V-1	RPV-E	629009 99-029	4/28/99	Y	NRI
DD VOL	BHEAD MERID	X-9RIO	V-1	RPV-E	629010 99-029	4/28/99	Y	NRI
DE VOL	BHEAD MERID	X-9RIO	V-1	RPV-E	629011 99-029	4/28/99	Y	NRI
DF VOL	BHEAD MERID	X-9RIO	V-1	RPV-E	629012 99-029	4/24/99	Y	NRI
DG VOL	BHEAD MERID	X-9RIO	V-2	RPV-E	629013 98-041	4/28/99	Y	NRI
DH VOL	BHEAD MERID	X-9RIO	V-2	RPV-E	629127	4/26/99	Y	NRI
DJ VOL	TPHEAD MERID	X-9RIO	V-3	RPV-E	629014 98-041	4/29/99	Y	NRI
DK VOL	TPHEAD MERID	X-9RIO	V-3	RPV-E	629015 98-041	4/29/99	Y	NRI

TALLY ITEM B1.22 10

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-A ITEM: B1.30

COMP ID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
AF (120-240) VOL	SC5-VFLG(120-24	X-9RIO	V-5	RPV-E	629016 98-041	4/6/99	Y	NRI

TALLY ITEM B1.30 1

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-A ITEM: B1.40

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK / CR NO	SYSTEM	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
AG (120-240) SUR	TPHEAD-FLG(120-	X-9RIO		RPV-E	629017 98-041	4/10/99	Y	NRI
AG (120-240) VOL	TPHEAD-FLG(120-	X-9RIO	V-3	RPV-E	629018 98-041	4/29/99	Y	NRI

TALLY ITEM B1.40 2
TALLY CDECAT B-A 15

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-D ITEM: B3.100

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
N8A IR VOL	NOZ-IR	X-9RIO	V-1	RPV-E	629019 98-041	5/7/99	Y	NRI
N9 IR VOL	NOZ-IR	X-9RIO	V-1	RPV-E	629020 98-041	4/30/99	Y	NRI

TALLY ITEM B3.100 2

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-D ITEM: B3.90

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
N8A VOL	NOZ-SC1	X-9RIO	V-1	RPV-E	629021 99-028	4/30/99	Y	NRI
N9 VOL	NOZ-SC3	X-9RIO	V-1	RPV-E	629022 99-028	5/1/99	Y	NRI

TALLY ITEM B3.90 2
TALLY CDECAT B-D 4

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-F ITEM: B5.10

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N1B NOZ-SE SUR	NOZ-SE	X-9RIO	V-30 B	RPV-E	629023 98-041	3/29/99	Y	NRI
N1B NOZ-SE VOL	NOZ-SE	X-9RIO	V-30 B	RPV-E	629024 98-041	6/4/99	Y	2-ID GEOMETRY ACCEPT
N2B NOZ-SE SUR	SE-NOZ	X-9RIO	B	RPV-E	629025 98-041	4/10/99	Y	NRI
N2B NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629026 98-041	5/28/99	Y	6-ID RT GMTRY ACCEPT
N2C NOZ-SE SUR	SE-NOZ	X-9RIO	B	RPV-E	629027 98-041	4/10/99	Y	6-ID/RT GMTRY ACCEPT
N2C NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629028 98-041	5/28/99	Y	NRI
N2D NOZ-SE SUR	SE-NOZ	X-9RIO	B	RPV-E	629029 98-041	4/10/99	Y	NRI
N2D NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629030 98-041	6/4/99	Y	4-ID GEOMETRY
N2E NOZ-SE SUR	SE-NOZ	X-9RIO	B	RPV-E	629031 98-041	4/10/99	Y	NRI
N2E NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 B	RPV-E	629032 98-041	6/4/99	Y	4-ID GEOMETRY ACCEPT
N2G NOZ-SE SUR	SE-NOZ	X-9RIO	A	RPV-E	629033 98-041	4/10/99	Y	NRI
N2G NOZ-SE VOL	SE-NOZ	X-9RIO	V-27 A	RPV-E	629034 98-041	6/4/99	Y	7-ID GEOMETRY ACCEPT

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-F ITEM: B5.10

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
N2H N0Z-SE SUR	SE-N0Z	X-9RI0	A	RPV-E	629035 98-041	4/10/99	Y	NRI
N2H N0Z-SE VOL	SE-N0Z	X-9RI0	V-27 A	RPV-E	629036 98-041	6/4/99	Y	6-ID RT GMTRY ACCEPT

TALLY ITEM B5.10 14
TALLY CDECAT B-F 14

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.10 .

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
RPV-NUT-26 SUR	RPV NUT	X-9RIO		RPV-E	629037 98-041	4/9/99	Y	NRI
RPV-NUT-27 SUR	RPV NUT	X-9RIO		RPV-E	629038 98-041	4/9/99	Y	NRI
RPV-NUT-28 SUR	RPV NUT	X-9RIO		RPV-E	629039 98-041	4/9/99	Y	NRI
RPV-NUT-29 SUR	RPV NUT	X-9RIO		RPV-E	629040 98-041	4/9/99	Y	NRI
RPV-NUT-30 SUR	RPV NUT	X-9RIO		RPV-E	629041 98-041	4/9/99	Y	NRI
RPV-NUT-31 SUR	RPV NUT	X-9RIO		RPV-E	629042 98-041	4/9/99	Y	NRI
RPV-NUT-32 SUR	RPV NUT	X-9RIO		RPV-E	629043 98-041	4/9/99	Y	NRI
RPV-NUT-33 SUR	RPV NUT	X-9RIO		RPV-E	629044 98-041	4/9/99	Y	NRI
RPV-NUT-34 SUR	RPV NUT	X-9RIO		RPV-E	629045 98-041	4/9/99	Y	NRI
RPV-NUT-35 SUR	RPV NUT	X-9RIO		RPV-E	629046 98-041	4/9/99	Y	NRI
RPV-NUT-36 SUR	RPV NUT	X-9RIO		RPV-E	629047 98-041	4/9/99	Y	NRI
RPV-NUT-37 SUR	RPV NUT	X-9RIO		RPV-E	629048 98-041	4/9/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.10

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
RPV-NUT-38 SUR	RPV NUT	X-9RIO		RPV-E	629049 98-041	4/9/99	Y	NRI
RPV-NUT-39 SUR	RPV NUT	X-9RIO		RPV-E	629050 98-041	4/9/99	Y	NRI
RPV-NUT-40 SUR	RPV NUT	X-9RIO		RPV-E	629051 98-041	4/9/99	Y	NRI
RPV-NUT-41 SUR	RPV NUT	X-9RIO		RPV-E	629052 98-041	4/9/99	Y	NRI
RPV-NUT-42 SUR	RPV NUT	X-9RIO		RPV-E	629053 98-041	4/9/99	Y	NRI
RPV-NUT-43 SUR	RPV NUT	X-9RIO		RPV-E	629054 98-041	4/9/99	Y	NRI
RPV-NUT-44 SUR	RPV NUT	X-9RIO		RPV-E	629055 98-041	4/9/99	Y	NRI
RPV-NUT-45 SUR	RPV NUT	X-9RIO		RPV-E	629056 98-041	4/9/99	Y	NRI
RPV-NUT-46 SUR	RPV NUT	X-9RIO		RPV-E	629057 98-041	4/9/99	Y	NRI
RPV-NUT-47 SUR	RPV NUT	X-9RIO		RPV-E	629058 98-041	4/9/99	Y	NRI
RPV-NUT-48 SUR	RPV NUT	X-9RIO		RPV-E	629059 98-041	4/9/99	Y	NRI
RPV-NUT-49 SUR	RPV NUT	X-9RIO		RPV-E	629060 99-017	4/9/99	Y	2-LINEAR ACCEPT/LVL III

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.10

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
RPV-NUT-50. SUR	RPV NUT	X-9RIO		RPV-E	629061 98-041	4/9/99	Y	NRI

TALLY ITEM B6.10 25

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.20

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
RPV-STUD-26 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629062 98-041	4/2/99	Y	NRI
RPV-STUD-27 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629063 98-041	4/2/99	Y	NRI
RPV-STUD-28 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629064 98-041	4/2/99	Y	NRI
RPV-STUD-29 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629065 98-041	4/2/99	Y	NRI
RPV-STUD-30 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629066 98-041	4/2/99	Y	NRI
RPV-STUD-31 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629067 98-041	4/2/99	Y	NRI
RPV-STUD-32 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629068	4/2/99	Y	NRI
RPV-STUD-33 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629069	4/2/99	Y	NRI
RPV-STUD-34 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629070	4/2/99	Y	NRI
RPV-STUD-35 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629071	4/2/99	Y	NRI
RPV-STUD-36 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629022	4/2/99	Y	NRI
RPV-STUD-37 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629073 98-041	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.20

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
RPV-STUD-38 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629074 98-041	4/2/99	Y	NRI
RPV-STUD-39 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629075 98-041	4/2/99	Y	NRI
RPV-STUD-40 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629076 98-041	4/2/99	Y	NRI
RPV-STUD-41 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629077 98-041	4/2/99	Y	NRI
RPV-STUD-42 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629078 98-041	4/2/99	Y	NRI
RPV-STUD-43 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629079 98-041	4/2/99	Y	NRI
RPV-STUD-44 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629080 98-041	4/2/99	Y	NRI
RPV-STUD-45 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629081 98-041	4/2/99	Y	NRI
RPV-STUD-46 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629082 98-041	4/2/99	Y	NRI
RPV-STUD-47 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629083 98-041	4/2/99	Y	NRI
RPV-STUD-48 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629084 98-041	4/2/99	Y	NRI
RPV-STUD-49 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629085 98-041	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.20

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
RPV-STUD-50 VOL	RPV STUD	X-9RIO	V-32	RPV-E	629086 98-041	4/2/99	Y	NRI

TALLY ITEM B6.20 25

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.40

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
VFL-THD-18 VOL	RPV FLANGE THRE	X-D	V-31	RPV-E	629087 95-045	4/2/99	Y	NRI
VFL-THD-19 VOL	RPV FLANGE THRE	X-D	V-31	RPV-E	629088 95-045	4/2/99	Y	NRI
VFL-THD-20 VOL	RPV FLANGE THRE	X-D	V-31	RPV-E	629089 95-045	4/2/99	Y	NRI
VFL-THD-21 VOL	RPV FLANGE THRE	X-D	V-31	RPV-E	629090 95-045	4/2/99	Y	NRI

TALLY ITEM B6.40 4

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.50

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
RPV-WASH-26 VT-1	RPV WASH	X-9RIO		RPV-E	629091 98-041	4/10/99	Y	NRI
RPV-WASH-27 VT-1	RPV WASH	X-9RIO		RPV-E	629092 98-041	4/10/99	Y	NRI
RPV-WASH-28 VT-1	RPV WASH	X-9RIO		RPV-E	629093 98-041	4/10/99	Y	NRI
RPV-WASH-29 VT-1	RPV WASH	X-9RIO		RPV-E	629094 98-041	4/10/99	Y	NRI
RPV-WASH-30 VT-1	RPV WASH	X-9RIO		RPV-E	629095 98-041	4/10/99	Y	NRI
RPV-WASH-31 VT-1	RPV WASH	X-9RIO		RPV-E	629096 98-041	4/10/99	Y	NRI
RPV-WASH-32 VT-1	RPV WASH	X-9RIO		RPV-E	629097 98-041	4/10/99	Y	NRI
RPV-WASH-33 VT-1	RPV WASH	X-9RIO		RPV-E	629098 98-041	4/10/99	Y	NRI
RPV-WASH-34 VT-1	RPV WASH	X-9RIO		RPV-E	629099 98-041	4/10/99	Y	NRI
RPV-WASH-35 VT-1	RPV WASH	X-9RIO		RPV-E	629100 98-041	4/10/99	Y	NRI
RPV-WASH-36 VT-1	RPV WASH	X-9RIO		RPV-E	629101 98-041	4/10/99	Y	NRI
RPV-WASH-37 VT-1	RPV WASH	X-9RIO		RPV-E	629102 98-041	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: B6.50

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
RPV-WASH-38 VT-1	RPV WASH	X-9RIO		RPV-E	629103 98-041	4/10/99	Y	NRI
RPV-WASH-39 VT-1	RPV WASH	X-9RIO		RPV-E	629104 98-041	4/10/99	Y	NRI
RPV-WASH-40 VT-1	RPV WASH	X-9RIO		RPV-E	629105 98-041	4/10/99	Y	NRI
RPV-WASH-41 VT-1	RPV WASH	X-9RIO		RPV-E	629106 98-041	4/10/99	Y	NRI
RPV-WASH-42 VT-1	RPV WASH	X-9RIO		RPV-E	629107 98-041	4/10/99	Y	NRI
RPV-WASH-43 VT-1	RPV WASH	X-9RIO		RPV-E	629108 98-041	4/10/99	Y	NRI
RPV-WASH-44 VT-1	RPV WASH	X-9RIO		RPV-E	629109 98-041	4/10/99	Y	NRI
RPV-WASH-45 VT-1	RPV WASH	X-9RIO		RPV-E	629110 98-041	4/10/99	Y	NRI
RPV-WASH-46 VT-1	RPV WASH	X-9RIO		RPV-E	629111 98-041	4/10/99	Y	NRI
RPV-WASH-47 VT-1	RPV WASH	X-9RIO		RPV-E	629112 98-041	4/10/99	Y	NRI
RPV-WASH-48 VT-1	RPV WASH	X-9RIO		RPV-E	629113 98-041	4/10/99	Y	NRI
RPV-WASH-49 VT-1	RPV WASH	X-9RIO		RPV-E	629114 98-041	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-1 ITEM: 86.50

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
RPV-WASH-50 VT-1	RPV WASH	X-9RIO		RPV-E	629115 98-041	4/10/99	Y	NRI

TALLY ITEM 86.50 25
TALLY CDECAT B-G-1 79

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-2 ITEM: B7.50

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VNBB213-19-E-BG2 VT-1	FLANGE BOLTING	X-2P		MS	839001	4/1/99	Y	NRI
VNBB213-19-K-BG2 VT-1	FLANGE BOLTING	X-2P		MS	839004	4/1/99	Y	NRI
VNBB213-19-N-BG2 VT-1	FLANGE BOLTING	X-2P		MS	839005	4/1/99	Y	NRI
DCA2411-3D-BG2 VT-1	08/FL BOLT	X-2P		RR	649038	5/11/99	Y	NRI
VRRB313-14G-BG2 VT-1	08/FL BOLT	X-2P		RR	649039 99-021	4/1/99	Y	NRI

TALLY ITEM B7.50 5

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-2 ITEM: B7.70

COMP ID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
HV24107B-BG2 VT-1	VALVE BOLTING	X-2P		FW	459001	4/23/99	Y	NRI

TALLY ITEM B7.70 1

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-2 ITEM: B7.80

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
CRD-02-43-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629129 99-013	6/16/99	Y	NRI
CRD-06-27-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629130 99-013	6/16/99	Y	NRI
CRD-06-39-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629131 99-013	6/16/99	Y	NRI
CRD-14-31-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629132 99-013	6/16/99	Y	NRI
CRD-14-43-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629133 99-013	6/16/99	Y	NRI
CRD-18-51-BLT VT-2	CRD HOUSING BLT	X-D		RPV-E 94702	629134 99-013	6/16/99	Y	NRI
CRD-22-47-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629135 99-013	6/16/99	Y	NRI
CRD-26-43-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629136 99-013	6/16/99	Y	NRI
CRD-26-47-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629137 99-013	6/16/99	Y	NRI
CRD-30-43-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629138 99-013	6/16/99	Y	NRI
CRD-34-23-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629139 99-013	6/16/99	Y	NRI
CRD-34-31-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629140 99-013	6/16/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-2 ITEM: B7.80

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
CRD-34-51-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629141 99-013	6/16/99	Y	NRI
CRD-38-15-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629142 99-013	6/16/99	Y	NRI
CRD-38-31-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629143 99-013	6/16/99	Y	NRI
CRD-38-43-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629144 99-013	6/16/99	Y	NRI
CRD-42-11-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629145 99-013	6/16/99	Y	NRI
CRD-42-19-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629146 99-013	6/16/99	Y	NRI
CRD-42-23-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629147 99-013	6/16/99	Y	NRI
CRD-42-47-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629148 99-013	6/16/99	Y	NRI
CRD-46-55-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629149 99-013	6/16/99	Y	NRI
CRD-50-31-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629150 99-013	6/16/99	Y	NRI
CRD-50-43-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629151 99-013	6/16/99	Y	NRI
CRD-58-39-BLT VT-1	CRD HOUSING BLT	X-D		RPV-E 94702	629152 99-013	6/16/99	Y	NRI

TALLY ITEM B7.80 24

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-G-2 ITEM: B7.80

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION

TALLY CDECAT B-G-2 30

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.11

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VNBB213-FW-D-4 SUR	E-V	X-2P		MS	839006	4/7/99	Y	NRI
VNBB213-FW-D-4 VOL	E-V	X-2P	P-77	MS	839007 96-006	4/7/99	Y	NRI
VNBB213-FW-D-5 SUR	V-FH	X-2P		MS	839008	4/6/99	Y	NRI
VNBB213-FW-D-5 VOL	V-FH	X-2P	P-78	MS	839009 96-006	4/6/99	Y	NRI
VNBB213-20-D SUR	SWOL-P	X-2P		MS	839010	4/6/99	Y	NRI
VNBB213-20-D VOL	SWOL-P	X-2P	P-21	MS	839011	4/6/99	Y	NRI
VNBB213-20-J SUR	SWOL-P	X-2P		MS	839012	4/6/99	Y	NRI
VNBB213-20-J VOL	SWOL-P	X-2P	P-21	MS	839013	4/6/99	Y	NRI
DCA2101-FW-2 SUR	V-FH	X-2P		RHR	499010 99-033	00/00/00	Y	
DCA2101-FW-2 VOL	V-FH	X-2P	P-67	RHR	499001 99-033	00/00/00	Y	
DCA2102-FW-2 SUR	V-FH	X-2P		RHR	499011	4/10/99	Y	NRI
DCA2102-FW-2 VOL	V-FH	X-2P	P-67	RHR	499002	4/13/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.11

COMP ID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DCA2111-FW-2 SUR	V-P	X-2P		RHR	499014	4/10/99	Y	NRI
DCA2111-FW-2 VOL	V-P	X-2P	P-13	RHR	499015	4/10/99	Y	ID GEOMETRY ACCEPT
DCA2113-FW-11 SUR	P-FL	X-2P		RHR	499016 98-047	4/9/99	Y	NRI
DCA2113-FW-11 VOL	P-FL	X-2P	P-13	RHR	499017 98-047	4/14/99	Y	NRI
DCA2113-FW-13 SUR	FL-P	X-2P		RHR	499018	4/10/99	Y	NRI
DCA2113-FW-13 VOL	FL-P	X-2P	P-13	RHR	499019	4/14/99	Y	NRI
DCB2021-FW-4 SUR	FH-E	X-2P	A	RHR	499022	4/10/99	Y	NRI
DCB2021-FW-4 VOL	FH-E	X-2P	P-13 A	RHR	499008	4/14/99	Y	1-ROOT GEOMETRY
N5A SE-SEXT SUR	SE EXT-SE	X-9RIO	V-15 B	RPV-E	629116 98-041	4/10/99	Y	NRI
N5A SE-SEXT VOL	SE EXT-SE	X-9RIO	V-15 B	RPV-E	629117 98-041	4/17/99	Y	NRI
N5B SE-SEXT SUR	SE EXT-SE	X-9RIO	A	RPV-E	629118 98-041	4/10/99	Y	NRI
N5B SE-SEXT VOL	SE EXT-SE	X-9RIO	V-15 A	RPV-E	629119 98-041	4/17/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.11

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N8A SE-PEN SEAL SUR	SE-PEN SEAL	X-9RIO	A	RPV-E	629120 98-041	4/10/99	Y	NRI
N8A SE-PEN SEAL VOL	SE-PEN SEAL	X-9RIO	P-13 A	RPV-E	629121 98-041	4/16/99	Y	NRI
VRRB313-FW-A-1 SUR	SE-P	X-2P		RR	649040	3/29/99	Y	NRI
VRRB313-FW-A-1 VOL	SE-P	X-2P	P-79	RR	649001	4/10/99	Y	NRI
VRRB313-FW-A-11 SUR	SWOL-P	X-2P		RR	649044	4/10/99	Y	NRI
VRRB313-FW-A-11 VOL	SWOL-P	X-2P	P-93	RR	649003	5/11/99	Y	2-ID GEOMETRY ACCEPT
VRRB313-FW-A-14 SUR	SWOL-P	X-2P		RR	649046	4/10/99	Y	NRI
VRRB313-FW-A-14 VOL	SWOL-P	X-2P	P-93	RR	649004	4/10/99	Y	NRI
VRRB313-FW-A-2 SUR	P-P	X-2P		RR	649048	4/5/99	Y	NRI
VRRB313-FW-A-2 VOL	P-P	X-2P	P-79	RR	649005	4/14/99	Y	NRI
VRRB313-FW-A-3 SUR	E-V	X-2P		RR	649050	4/10/99	Y	NRI
VRRB313-FW-A-3 VOL	E-V	X-2P	P-81	RR	649006	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.11

COMPID EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK LOOP	SYSTEM CR NO	EXAM NO INF	ANII SIGN-OFF	P/C	IND RESOLUTION
VRRB313-FW-A-33 SUR	T-V	X-2P		RR	649052 99-022	00/00/00	Y	NRI
VRRB313-FW-A-33 VOL	T-V	X-2P	P-81	RR	649007 99-022	00/00/00	Y	
VRRB313-FW-A-5 VOL	E-PU	X-2P	P-81	RR	649009 99-021	5/11/99	Y	NRI
VRRB313-FW-A-5 SUR	E-PU	X-2P		RR	649056	4/29/99	Y	NRI
VRRB313-10-B SUR	P-E	X-2P		RR	649058	4/10/99	Y	NRI
VRRB313-10-B VOL	P-E	X-2P	P-79	RR	649010	4/14/99	Y	NRI
VRRB313-10-C SUR	P-P	X-2P		RR	649060	4/5/99	Y	NRI
VRRB313-10-C VOL	P-P	X-2P	P-79	RR	649041	6/4/99	Y	NRI
VRRB313-2-A SUR	E-P	X-2P		RR	649062	4/5/99	Y	NRI
VRRB313-2-A VOL	E-P	X-2P	P-80	RR	649011	4/14/99	Y	NRI
VRRB313-3-F SUR	CR-PB	X-2P		RR	649064	4/10/99	Y	NRI
VRRB313-3-F VOL	CR-PB	X-2P	P-58	RR	649012	4/14/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.11

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VRRB313-9-A SUR	P-E	X-2P		RR	649066	4/2/99	Y	NRI
VRRB313-9-A VOL	P-E	X-2P	P-79	RR	649013	4/10/99	Y	NRI
VRRB313-9-B SUR	E-P	X-2P		RR	649068	4/2/99	Y	NRI
VRRB313-9-B VOL	E-P	X-2P	P-79	RR	649014	4/14/99	Y	NRI
VRRB314-FW-B-1 SUR	SE-P	X-9RIO		RR	649070	3/29/99	Y	NRI
VRRB314-FW-B-1 VOL	SE-P	X-9RIO	P-79	RR	649015	5/28/99	Y	NRI
VRRB314-FW-B-14 SUR	SWOL-P	X-2P		RR	649042 99-011	4/14/99	Y	NRI
VRRB314-FW-B-14 VOL	SWOL-P	X-2P	P-93	RR	649002 99-011	4/16/99	Y	2-ID GEOMETRY ACCEPT
VRRB314-FW-B-20 SUR	SWOL-P	X-2P		RR	649072	4/13/99	Y	NRI
VRRB314-FW-B-20 VOL	SWOL-P	X-2P	P-79	RR	649016	4/14/99	Y	NRI
VRRB314-FW-B-23 SUR	E-V	X-2P		RR	649074	4/10/99	Y	NRI
VRRB314-FW-B-23 VOL	E-V	X-2P	P-05	RR	649075	4/14/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.11

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
VRRB314-FW-B-3 SUR	E-V	X-2P		RR	649076	4/5/99	Y	NRI
VRRB314-FW-B-3 VOL	E-V	X-2P	P-81	RR	649017	4/5/99	Y	NRI
VRRB314-FW-B-5 SUR	E-PU	X-2P		RR	649080	5/11/99	Y	NRI
VRRB314-FW-B-5 VOL	E-PU	X-2P	P-81	RR	649019	5/11/99	Y	NRI
VRRB314-1-A VOL	P-E	X-2P	P-79	RR	649020 99-038	4/13/99	Y	NRI
VRRB314-1-A SUR	P-E	X-2P		RR	649018 99-038	4/24/99	Y	NRI
DCA2021-FW-1 SUR	T-P	X-2P		RWCU	619002	4/7/99	Y	NRI
DCA2021-FW-1 VOL	T-P	X-2P	P-05	RWCU	619001	4/17/99	Y	NRI
DCA2022-1-B SUR	T-P	X-2P		RWCU	619004	4/17/99	Y	NRI
DCA2022-1-B VOL	T-P	X-2P	P-05	RWCU	619005	4/17/99	Y	NRI

TALLY ITEM B9.11 70

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.12

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
DCA2111-1-C SUR	PIPE SEAM (DN F	X-2P		RHR	499024	4/10/99	Y	NRI
DCA2111-1-C VOL	PIPE SEAM (DN F	X-2P	P-13	RHR	499098	4/13/99	Y	NRI
DCA2113-3-E SUR	PIPE SEAM (DN F	X-2P		RHR	499025	5/12/99	Y	NRI
DCA2113-3-E VOL	PIPE SEAM (DN F	X-2P	P-13	RHR	499026	4/13/99	Y	NRI
DCA2421-2-C VOL	PIPE SEAM (DN F	X-2P	P-05	RR	649082	4/14/99	Y	NRI
DCA2421-2-C SUR	PIPE SEAM (DN F	X-2P		RR	649083	4/14/99	Y	NRI
VRRB313-10-L SUR	ELL SEAM-MAX (U	X-2P		RR	649084	5/12/99	Y	NRI
VRRB313-10-L VOL	ELL SEAM-MAX (U	X-2P	P-81	RR	649085	4/10/99	Y	NRI
VRRB313-10-M SUR	ELL SEAM-MIN (U	X-2P		RR	649086	5/12/99	Y	NRI
VRRB313-10-M VOL	ELL SEAM-MIN (U	X-2P	P-81	RR	649087	4/13/99	Y	NRI
VRRB313-10-N SUR	PIPE SEAM (DN 1	X-2P		RR	649088	4/5/99	Y	NRI
VRRB313-10-N VOL	PIPE SEAM (DN 1	X-2P	P-79	RR	649089	5/12/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.12

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
VRRB313-10-R SUR	PIPE SEAM (DN F	X-2P		RR	649090	4/5/99	Y	NRI
VRRB313-10-R VOL	PIPE SEAM (DN F	X-2P	P-79	RR	649091	4/14/99	Y	NRI
VRRB313-3-N SUR	PIPE SEAM (DN 3	X-2P		RR	649094	4/10/99	Y	NRI
VRRB313-3-N VOL	PIPE SEAM (DN 3	X-2P	P-79	RR	649095	4/17/99	Y	NRI
VRRB313-9-C SUR	ELL SEAM-MAX (D	X-2P		RR	649096	4/6/99	Y	NRI
VRRB313-9-C VOL	ELL SEAM-MAX (D	X-2P	P-81	RR	649097	4/14/99	Y	NRI
VRRB313-9-D SUR	ELL SEAM-MIN (U	X-2P		RR	649098	4/6/99	Y	NRI
VRRB313-9-D VOL	ELL SEAM-MIN (U	X-2P	P-81	RR	649099	4/14/99	Y	NRI
VRRB313-9-E SUR	PIPE SEAM (DN F	X-2P		RR	649100	3/29/99	Y	NRI
VRRB313-9-E VOL	PIPE SEAM (DN F	X-2P	P-79	RR	649101	4/10/99	Y	NRI
VRRB313-9-F SUR	PIPE SEAM (UP F	X-2P		RR	649102	4/5/99	Y	NRI
VRRB313-9-F VOL	PIPE SEAM (UP F	X-2P	P-79	RR	649103	4/14/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.12

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VRRB314-1-E SUR	PIPE SEAM (DN F	X-2P		RR	649104	3/29/99	Y	NRI
VRRB314-1-E VOL	PIPE SEAM (DN F	X-2P	P-79	RR	649105	5/28/99	Y	NRI
VRRB314-2-P SUR	ELL SEAM-MIN (U	X-2P		RR	649106	4/5/99	Y	NRI
VRRB314-2-P VOL	ELL SEAM-MIN (U	X-2P	P-81	RR	649107	4/6/99	Y	NRI
VRRB314-2-Q SUR	ELL SEAM-MAX (U	X-2P		RR	649108	4/5/99	Y	NRI
VRRB314-2-Q VOL	ELL SEAM-MAX (U	X-2P	P-81	RR	649109	4/6/99	Y	NRI
VRRB314-3-H SUR	ELL SEAM-MIN (U	X-2P		RR	649110	4/10/99	Y	NRI
VRRB314-3-H VOL	ELL SEAM-MIN (U	X-2P	P-81	RR	649111	4/14/99	Y	NRI
VRRB314-3-J SUR	ELL SEAM-MAX (U	X-2P		RR	649112	4/10/99	Y	NRI
VRRB314-3-J VOL	ELL SEAM-MAX (U	X-2P	P-81	RR	649113	4/14/99	Y	NRI

TALLY ITEM B9.12 34

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.31

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VNBB213-20-C SUR	P-SWOL	X-2P		MS	839014	4/7/99	Y	NRI
VNBB213-20-C VOL	P-SWOL	X-2P	P-75	MS	839015	4/10/99	Y	NRI
VNBB213-20-F SUR	P-SWOL	X-2P		MS	839016 99-039	00/00/00	Y	NRI
VNBB213-20-F VOL	P-SWOL	X-2P	P-75	MS	839017 99-039	00/00/00	Y	NRI
VNBB213-20-L SUR	P-SWOL	X-2P		MS	839018	4/7/99	Y	NRI
VNBB213-20-L VOL	P-SWOL	X-2P	P-75	MS	839019	4/5/99	Y	NRI
VNBB213-20-P SUR	P-SWOL	X-2P		MS	839020	4/10/99	Y	NRI
VNBB213-20-P VOL	P-SWOL	X-2P	P-75	MS	839021	4/5/99	Y	NRI
VNBB213-20-V SUR	P-SWOL	X-2P		MS	839022 99-039	00/00/00	Y	NRI
VNBB213-20-V VOL	P-SWOL	X-2P	P-75	MS	839023 99-039	00/00/00	Y	NRI
VRRB313-1-A SUR	P-SWOL	X-2P		RR	649116	4/5/99	Y	NRI
VRRB313-1-A VOL	P-SWOL	X-2P	P-80	RR	649117 96-006	4/5/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.31

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VRRB313-2-B SUR	P-SWOL	X-2P		RR	649118 99-010	00/00/00	Y	NRI
VRRB313-2-B VOL	P-SWOL	X-2P	P-80	RR	649119 99-024	00/00/00	Y	
VRRB313-3-1-G SUR	PB-SWOL	X-2P		RR	649065	4/10/99	Y	NRI
VRRB313-3-1-G VOL	PB-SWOL	X-2P	P-58	RR	649121	4/23/99	Y	NRI
VRRB313-3-2-B SUR	PB-SWOL	X-2P		RR	649069	4/10/99	Y	NRI
VRRB313-3-2-B VOL	PB-SWOL	X-2P	P-58	RR	649071	4/14/99	Y	NRI
VRRB313-3-2-C SUR	PB-SWOL	X-2P		RR	649073	4/9/99	Y	NRI
VRRB313-3-2-C VOL	PB-SWOL	X-2P	P-58	RR	649077	4/14/99	Y	NRI
VRRB314-10-B SUR	P-SWOL	X-2P		RR	649079	4/10/99	Y	NRI
VRRB314-10-B VOL	P-SWOL	X-2P	P-80	RR	649081 99-024	4/14/99	Y	NRI
VRRB314-12-A SUR	P-SWOL	X-2P		RR	649059	4/14/99	Y	NRI
VRRB314-12-A VOL	P-SWOL	X-2P	P-80	RR	649061 99-024	00/00/00	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-J ITEM: B9.31

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
VRRB314-9-2-B SUR	PB-SWOL	X-2P		RR	649120 98-008	4/17/99	Y	NRI
VRRB314-9-2-B VOL	PB-SWOL	X-2P	P-58	RR	649067 98-008	4/14/99	Y	NRI

TALLY ITEM B9.31 26
TALLY CDECAT B-J 130

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-K ITEM: B10.10

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
CG SUR	RPV-SUP SKIRT	X-9RIO		RPV-E	629128 99-014	4/13/99	Y	NRI

TALLY ITEM B10.10 1

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-K ITEM: B10.30

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
2P401A-HW2 SUR	BRKT/H46	X-2P		RR	649063	4/14/99	Y	NRI

TALLY ITEM B10.30 1
TALLY CDECAT B-K 2

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-M-2 ITEM: B12.50

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
2F010A VT-3	VALVE INT SUR	X-D		FW	99-494	4/5/99	Y	NRI
HV2F022D VT-3	VALVE INT SUR	X-D		MS	99-392	3/29/99	Y	NRI
HV2F028D VT-3	VALVE INT SUR	X-D		MS	99-502	4/6/99	Y	NRI
HV2F001 VT-3	VALVE INT SUR	X-D		RWCU	99-455	4/1/99	Y	NRI
HV2F004 VT-3	VALVE INT SUR	X-D		RWCU	99-507	4/6/99	Y	NRI

TALLY ITEM B12.50 5
TALLY CDECAT B-M-2 5

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-N-1 ITEM: B13.10

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
N3A UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629459 96-055	4/2/99	Y	NRI
N3B UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629460 96-055	4/2/99	Y	NRI
N3C UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629461 96-055	4/2/99	Y	NRI
N3D UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629462 96-055	4/2/99	Y	NRI
N4A UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629463 96-055	4/2/99	Y	NRI
N4B UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629464 96-055	4/2/99	Y	NRI
N4C UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629465 96-055	4/2/99	Y	NRI
N4D UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629466 96-055	4/2/99	Y	NRI
N4E UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629467 96-055	4/2/99	Y	NRI
N4F UNCLAD AREAS VT-3	UNCLAD INT SURF	X-2P		RPV-I	629468 96-055	4/14/99	Y	NRI

TALLY ITEM B13.10 10
TALLY CDECAT B-N-1 10

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-N-2 ITEM: B13.20

COMP ID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
SURV SPEC BRKT 2B VT-1	RPV BELTLINE AT	X-EOI		RPV-I	629477 96-055	4/7/99	Y	NRI

TALLY ITEM B13.20 1

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-N-2 ITEM: B13.30

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
HLD DWN BRKT WELD B VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629479	4/10/99	Y	NRI
N4C BRKT WELD A VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629657 96-055	4/2/99	Y	NRI
N4C BRKT WELD B VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629481 96-055	4/2/99	Y	NRI
N4D BRKT WELD A VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629482 96-055	4/2/99	Y	NRI
N4D BRKT WELD B VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629658 96-055	4/2/99	Y	NRI
N4E BRKT WELD A VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629700 96-055	4/2/99	Y	NRI
N4E BRKT WELD B VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629701 96-055	4/2/99	Y	NRI
N4F BRKT WELD A VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629702 96-055	4/2/99	Y	NRI
N4F BRKT WELD B VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629703 96-055	4/2/99	Y	NRI
SURV SPEC BRKT 2A VT-3	RPV ATTACH WELD	X-EOI		RPV-I	629660 96-055	4/7/99	Y	NRI

TALLY ITEM B13.30 10

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-N-2 ITEM: B13.40

COMPID EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE LOOP	CAL BLOCK CR NO	SYSTEM INF	EXAM NO	ANII SIGN-OFF	P/C	IND RESOLUTION
SHRD HORZ H1 VOL	SHROUD HORZ WELD	X-9RIO		RPV-I	629635	4/6/99	Y	LINEAR ACCEPT
SHRD HORZ H2 VOL	SHROUD HORZ WELD	X-9RIO		RPV-I	629636	4/6/99	Y	LINEAR ACCEPT
SHRD HORZ H4 VOL	SHROUD HORZ WELD	X-9RIO		RPV-I	629637	4/6/99	Y	LINEAR ACCEPT
SHRD HORZ H6B VOL	SHROUD HORZ WELD	X-9RIO		RPV-I	629639	4/6/99	Y	LINEAR ACCEPT
SHRD VER H6B/H7 270 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629640	4/6/99	Y	NRI
SHRD VERT H1/H2 270 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629641	4/6/99	Y	NRI
SHRD VERT H1/H2 90 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629642	4/6/99	Y	NRI
SHRD VERT H3/H4 45 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629643	4/6/99	Y	NRI
SHRD VERT H4/H5 0 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629644	4/6/99	Y	NRI
SHRD VERT H4/H5 180 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629402	4/6/99	Y	NRI
SHRD VERT H6B/H7 90 VOL	SHROUD VERT WELD	X-9RIO		RPV-I	629403	4/6/99	Y	NRI
SHROUD ACCS CVR 0 VT-1	0 ACSS HOLE C	X-RE		RPV-I	629490 96-055	4/10/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: B-N-2 ITEM: B13.40

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
SHROUD ACCS CVR 180 VT-1	180 ACSS HOLE C	X-RE		RPV-I	629491 96-055	4/10/99	Y	NRI
SHROUD FLANGE VT-3	CORE SUPPORT	X-EOI		RPV-I	629661 96-055	4/7/99	Y	NRI

TALLY ITEM B13.40 14
TALLY CDECAT B-N-2 25

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-A ITEM: C1.10

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
2E-205A-13	SH CIRC WELD	X-2P	P-86	RHR	499027	4/29/99	Y	3 LAMINAR
VOL								ACCEPT

TALLY ITEM C1.10 1
TALLY CDECAT C-A 1

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-B ITEM: C2.21

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
2E-205B-23 SUR	NOZ-SH	X-2P		RHR	499028	4/6/99	Y	NRI
2E-205B-23 VOL	NOZ-SH	X-2P	P-86	RHR	499029	4/29/99	Y	NRI

TALLY ITEM C2.21 2

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-B ITEM: C2.22

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
2E205B-23	NIR-N4-B	X-2P	P-95	RHR	499030	4/29/99	Y	NRI
VOL								

TALLY ITEM C2.22 1
TALLY CDECAT C-B 3

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-C ITEM: C3.10

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
2E-205B-10 SUR	HX-INT ATTACH	X-2P		RHR 94426	499031 99-031	5/12/99	Y	4" LINEAR REPAIR
2E-205B-10A SUR	HX-INT ATTACH	X-2P		RHR	499032	5/7/99	Y	NRI
2E-205B-10B SUR	HX-INT ATTACH	X-2P		RHR	499033	5/7/99	Y	NRI
2E-205B-10C SUR	HX-INT ATTACH	X-2P		RHR 94426	499034 99-031	5/12/99	Y	42" LINEAR REPAIR

TALLY ITEM C3.10 4
TALLY CDECAT C-C 4

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-1 ITEM: C5.11

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DBB2071-FW-3 SUR	P-V	X-2P		RHR	499035	3/31/99	Y	NRI
DBB2071-FW-3 VOL	P-V	X-2P	P-64	RHR	499003	6/4/99	Y	NRI
DBB2071-1-B SUR	E-P	X-2P	A	RHR	499037	4/5/99	Y	NRI
DBB2071-1-B VOL	E-P	X-2P	P-69 A	RHR	499038 96-009	6/4/99	Y	NRI
DBB2072-FW-3 SUR	P-V	X-2P		RHR	499039	4/6/99	Y	NRI
DBB2072-FW-3 VOL	P-V	X-2P	P-64	RHR	499004	4/17/99	Y	NRI
DBB2072-1-A SUR	P-E	X-2P	B	RHR	499041	4/6/99	Y	NRI
DBB2072-1-A VOL	P-E	X-2P	P-71 B	RHR	499042 96-009	4/13/99	Y	NRI
DBB2072-1-D VOL	E-P	X-2P	P-64	RHR	499005	4/13/99	Y	NRI
DBB2072-1-D SUR	E-P	X-2P		RHR	499044	4/6/99	Y	NRI

TALLY ITEM C5.11 10

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-1 ITEM: C5.12

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
DBB2072-1-E SUR	ELL SEAM-MAX (D	X-2P		RHR	499045	5/12/99	Y	NRI
DBB2072-1-E VOL	ELL SEAM-MAX (D	X-2P	P-64	RHR	499046	5/25/99	Y	NRI

TALLY ITEM C5.12 2
TALLY CDECAT C-F-1 12

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-2 ITEM: C5.51

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DBB2141-1-B SUR	P-E	X-2P		HPCI	529015	5/25/99	Y	NRI
DBB2141-1-B VOL	P-E	X-2P		HPCI	529002	5/25/99	Y	NRI
DBB2141-1-C SUR	E-P	X-2P		HPCI	529003	5/25/99	Y	NRI
DBB2141-1-C VOL	E-P	X-2P	P-24	HPCI	529016	4/17/99	Y	NRI
DBB2141-1-F SUR	P-E	X-2P		HPCI	529004	5/25/99	Y	NRI
DBB2141-1-F VOL	P-E	X-2P	P-24	HPCI	529017	4/17/99	Y	NRI
DBB2191-FW-4 SUR	V-E	X-2P		HPCI	529005	5/25/99	Y	NRI
DBB2191-FW-4 VOL	V-E	X-2P	P-40	HPCI	529018	4/17/99	Y	NRI
DBB2191-1-C SUR	P-T	X-2P		HPCI	529006	5/25/99	Y	NRI
DBB2191-1-C VOL	P-T	X-EOI	P-40	HPCI	529019	4/23/99	Y	NRI
DBB2191-1-D SUR	E-P	X-2P	P-40	HPCI	529007	5/25/99	Y	NRI
DBB2191-1-D VOL	E-P	X-EOI	P-40	HPCI	529020	4/17/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-2 ITEM: C5.51

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
EBB2021-FW-3 SUR	E-P	X-2P	P-39	HPCI	529008	5/25/99	Y	NRI
EBB2021-FW-3 VOL	E-P	X-2P	P-39	HPCI	529009	4/17/99	Y	NRI
DBB2021-FW-11 SUR	SWOL-P	X-2P		MS	839025	4/17/99	Y	NRI
DBB2021-FW-11 VOL	SWOL-P	X-2P	P-20	MS	839026	4/17/99	Y	NRI
DBB2021-10-A SUR	P-E	X-2P		MS	839027 99-022	4/23/99	Y	NRI
DBB2021-10-A VOL	P-E	X-2P	P-20	MS	839030	4/23/99	Y	COUNTERBORE ACCEPT
DBB2021-9-D VOL	P-SWOL	X-2P	P-66	MS	839047	4/6/99	Y	NRI
DBB2021-9-D SUR	P-SWOL	X-EOI	P-66	MS	839024	4/17/99	Y	NRI
GBB2041-5-D SUR	T-P	X-2P	P-62	RHR	499047 99-009	4/7/99	Y	LINEAR ACCEPT
GBB2041-5-D VOL	T-P	X-2P	P-62	RHR	499048	4/13/99	Y	NRI
GBB2042-FW-1 SUR	P-E	X-2P		RHR	499049	4/10/99	Y	NRI
GBB2042-FW-1 VOL	P-E	X-2P	P-62	RHR	499050	4/6/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-2 ITEM: C5.51

COMP ID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P / C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
GBB2044-1-B VOL	P-T	X-2P	P-62	RHR	499051	4/10/99	Y	NRI
GBB2044-1-B SUR	P-T	X-2P		RHR	499052	4/17/99	Y	NRI
GBB2052-FW-5 SUR	E-NOZ	X-2P		RHR	499053	4/6/99	Y	NRI
GBB2052-FW-5 VOL	E-NOZ	X-2P	P-62	RHR	499054	4/13/99	Y	NRI
GBB2071-1-A SUR	E-P	X-2P		RHR	499055	4/10/99	Y	NRI
GBB2071-1-A VOL	E-P	X-2P	P-30	RHR	499056	4/17/99	Y	NRI
GBB2072-FW-1 SUR	T-P	X-2P		RHR	499057	5/7/99	Y	NRI
GBB2072-FW-1 VOL	T-P	X-2P	P-30	RHR	499058	4/13/99	Y	NRI
GBB2072-FW-5 SUR	P-E	X-2P		RHR	499059	4/17/99	Y	NRI
GBB2072-FW-5 VOL	P-E	X-2P	P-30	RHR	499060	4/13/99	Y	NRI
GBB2072-2-E SUR	E-P	X-2P		RHR	499061	4/2/99	Y	NRI
GBB2072-2-E VOL	E-P	X-2P	P-30	RHR	499062	4/2/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-2 ITEM: C5.51

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
GBB2091-FW-1 SUR	T-P	X-2P		RHR	499063	5/7/99	Y	NRI
GBB2091-FW-1 VOL	T-P	X-2P	P-62	RHR	499064	4/13/99	Y	NRI
GBB2092-FW-1 SUR	T-P	X-2P		RHR	499065	4/10/99	Y	NRI
GBB2092-FW-1 VOL	T-P	X-2P	P-62	RHR	499066	4/5/99	Y	ROOT GEOMETRY ACCEPT
GBB2151-1-A SUR	E-P	X-2P		RHR	499067	4/7/99	Y	NRI
GBB2151-1-A VOL	E-P	X-2P	P-62	RHR	499068	4/6/99	Y	NRI
GBB2161-FW-1 SUR	NOZ-RED	X-2P		RHR	499069	4/6/99	Y	NRI
GBB2161-FW-1 VOL	NOZ-RED	X-2P	P-62	RHR	499070	4/13/99	Y	ROOT GEOMETRY ACCEPT
HBB2101-FW-10 SUR	P-E	X-2P		RHR	499071	4/2/99	Y	NRI
HBB2101-FW-10 VOL	P-E	X-2P	P-59	RHR	499072	4/17/99	Y	NRI
HBB2101-5-D SUR	RED-FL	X-2P		RHR	499073	4/6/99	Y	NRI
HBB2101-5-D VOL	RED-FL	X-2P	P-84	RHR	499074	4/13/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-F-2 ITEM: C5.51

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
HBB2103-3-A SUR	P-T	X-2P		RHR	499075	4/6/99	Y	NRI
HBB2103-3-A VOL	P-T	X-2P	P-59	RHR	499076	4/13/99	Y	NRI
HBB2104-4-D SUR	RED-FL	X-2P		RHR	499077	4/10/99	Y	NRI
HBB2104-4-D VOL	RED-FL	X-2P	P-84	RHR	499078	4/13/99	Y	NRI

TALLY ITEM C5.51 52
TALLY CDECAT C-F-2 52

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: C-G ITEM: C6.10

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
2P202D-361-1-5 SUR	SH-FL	X-2P		RHR	499079	4/10/99	Y	NRI
2P202D-361-13-L SUR	LS(UP 361-5-13)	X-2P		RHR	499080	4/5/99	Y	NRI
2P202D-361-3-13 SUR	FL-P	X-2P		RHR	499081	4/5/99	Y	NRI
2P202D-361-5-L SUR	LS(ADJ 361-5-8)	X-2P		RHR	499082	4/5/99	Y	NRI
2P202D-361-5-13 SUR	P-SH	X-2P		RHR	499083	4/5/99	Y	NRI
2P202D-361-5-6 SUR	E-SH	X-2P		RHR	499084	4/10/99	Y	NRI

TALLY ITEM C6.10 6
TALLY CDECAT C-G 6

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: D-A ITEM: D1.20

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
GBC20119-H219-IA VT-1	H219/4 INT ATT	X-2P		MS	839031	5/25/99	Y	NRI
GBC2019-H151-IA VT-1	H151/2 INT ATT	X-2P		MS	839032	5/21/99	Y	NRI
HRC2141-H01-IA VT-1	H01/1 INT ATT	X-2P		RHRSW	169001	3/24/99	Y	NRI

TALLY ITEM D1.20 3
TALLY CDECAT D-A 3

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.10A

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / LOOP	CAL BLOCK / CR NO	SYSTEM / INF	EXAM NO	ANII SIGN-OFF	P/C	IND / RESOLUTION
DCA2092-H-X16B VT-3	FLUED HEAD	X-2P		CS 1	519003	4/30/99	Y	NRI
DLA2011-H-X9A VT-3	FLUED HEAD	X-2P		FW	459002	5/25/99	Y	NRI
DCB2021-H2 VT-3	ANCHOR	X-2P		RHR	499085	4/23/99	Y	NRI

TALLY ITEM F1.10A 3

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.10R

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
DCA2111-H33 VT-3	SWAY ST	X-2P		RHR 93287	499086	5/10/99	Y	VISUAL REWORK
DCA2112-H32 VT-3	SWAY ST	X-2P		RHR	499087	4/20/99	Y	NRI
DCA2031-H7 VT-3	GUIDE	X-2P		RWCU	619006	4/10/99	Y	NRI
SPDCA2064-H2613 VT-3	SWAY ST	X-2P		SBLC	539001	5/10/99	Y	NRI
SPDCA2065-H2619 VT-3	SWAY ST	X-2P		SBLC	539002	5/10/99	Y	NRI

TALLY ITEM F1.10R 5

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.10S

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DCA2091-H2 VT-3	VAR SUP	X-2P		CS	519004	4/1/99	Y	NRI
DLA2041-H2 VT-3	VAR SUP	X-2P		FW	459003	5/25/99	Y	NRI
MST222-H11 VT-3	SNUB MECH	X-2P		MS	839033	5/25/99	Y	NRI
MST222-H27 VT-3	SNUB MECH	X-2P		MS	839034	5/25/99	Y	NRI
DBA2051-H2 VT-3	VAR SUP	X-2P		RCIC	509001	5/25/99	Y	NRI
DCA2101-H8 VT-3	VAR SUP	X-2P		RHR	499088	4/1/99	Y	NRI
DCB2021-H1 VT-3	VAR SUP	X-2P		RHR	499089	4/23/99	Y	NRI
DCA2411-HA8 VT-3	VAR SUP	X-2P		RR	649041	3/31/99	Y	NRI
RWS200-HA3 VT-3	VAR SUP	X-2P		RR	649043	5/25/99	Y	NRI
RWS200-H29 VT-3	SNUB MECH	X-2P		RR	649045	4/7/99	Y	NRI
RWS200-H30 VT-3	SNUB MECH	X-2P		RR	649047	4/7/99	Y	NRI
DBA2011-H29 VT-3	SNUB MECH	X-2P		RWCU	619007	5/25/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.10S

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DBA2012-H6 VT-3	SNUB MECH	X-2P		RWCU	619008	5/25/99	Y	NRI
DCA2021-H25 VT-3	VAR SUP	X-2P		RWCU	619003	5/25/99	Y	NRI

TALLY ITEM F1.10S 14

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.20A

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
EBB2031-H51 VT-3	ANCHOR BOLTS	X-2P		RHR 1	499090	4/23/99	Y	NRI
GBB2062-H16 VT-3	V-FH (ANCHOR)	X-2P		RHR	499091	4/7/99	Y	NRI

TALLY ITEM F1.20A 2

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.20R

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE / CAL BLOCK LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
VBB2022-H12 VT-3	RIGID HANG	X-2P	CRD	559001	3/29/99	Y	NRI
HBB2042-H62 VT-3	SWAY ST	X-2P	CS	519005	4/22/99	Y	NRI
DBB2141-H11 VT-3	RIGID HANG	X-2P	HPCI	529010	4/26/99	Y	NRI
DBB2202-H6 VT-3	SWAY ST	X-2P	HPCI	529011	4/26/99	Y	NRI
DBB2011-H20 VT-3	GUIDE	X-2P	MS	839035	4/23/99	Y	NRI
DBB2021-H17 VT-3	RIGID HANG	X-2P	MS	839036	4/23/99	Y	NRI
DBB2031-H17 VT-3	RIGID HANG	X-2P	MS	839037	4/23/99	Y	NRI
DBB2211-H2 VT-3	RIGID ST	X-2P	RCIC	509002	11/29/98	Y	NRI
GBB2041-H15 VT-3	SWAY ST	X-2P	RHR	499092	3/31/99	Y	NRI
GBB2061-H6 VT-3	SWAY ST	X-2P	RHR	499093	3/28/99	Y	NRI
GBB2071-H5 VT-3	SWAY ST	X-2P	RHR 92403	499094	5/10/99	Y	NRI
GBB2072-H56 VT-3	SWAY ST	X-2P	RHR 93918	499095		N	VISUAL REWORK

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.20R

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
GBB2091-H69 VT-3	SWAY ST	X-2P		RHR	499096	4/1/99	Y	NRI
GBB2092-H8 VT-3	SWAY ST	X-2P		RHR	499097	4/10/99	Y	NRI
GBB2151-H2 VT-3	SWAY ST	X-2P		RHR	499036	3/31/99	Y	NRI
HBB2104-H15 VT-3	SWAY ST	X-2P		RHR	499040	4/23/99	Y	NRI

TALLY ITEM F1.20R 16

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.20S

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
DBB2202-H4 VT-3	VAR SUP	X-2P		HPCI	529012	3/29/99	Y	NRI
DBB2031-H3 VT-3	SNUB MECH	X-2P		MS	839038	5/25/99	Y	NRI
DBB2051-H1 VT-3	VAR SUP	X-2P		MS	839039	5/25/99	Y	NRI
DBB2212-H13 VT-3	VAR SUP	X-2P		RCIC	509003	5/25/99	Y	NRI
HBB2012-H5 VT-3	SNUB MECH	X-2P		RCIC 92761	509004	5/10/99	Y	VISUAL REWORK
GBB2043-H29 VT-3	VAR SUP	X-2P		RHR	499043	4/1/99	Y	NRI
GBB2071-H10 VT-3	VAR SUP	X-2P		RHR	499012	4/7/99	Y	NRI

TALLY ITEM F1.20S 7

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.30A

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
GBC20116-H-X400N VT-3	FLUE HEAD	X-2P		MS 1	839040	5/10/99	Y	NRI

TALLY ITEM F1.30A 1

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.30R

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
HRC2011-H4 VT-3	SWAY ST	X-2P		ESW	549001	4/10/99	Y	NRI
HRC2051-H21 VT-3	SWAY ST	X-2P		ESW	549002	3/29/99	Y	NRI
HRC2061-H10 VT-3	GUIDE	X-2P		ESW	549003	4/10/99	Y	NRI
HRC2061-H4 VT-3	GUIDE	X-2P		ESW	549004	4/10/99	Y	NRI
HCC2032-H1 VT-3	GUIDE	X-2P		FPC	359001	3/29/99	Y	NRI
HCC2034-H52 VT-3	SWAY ST	X-2P		FPC	359002	4/3/99	Y	NRI
GBC20111-H250 VT-3	SWAY ST	X-2P		MS 93866	839041	5/10/99	Y	VISUAL REWORK
GBC2018-H229 VT-3	SWAY ST	X-2P		MS	839042	4/23/99	Y	NRI
GBC2019-H151 VT-3	SWAY ST	X-2P		MS 93866	839043	5/10/99	Y	VISUAL REWORK
HRC2141-H1 VT-3	SWAY ST	X-2P		RHRSW 92759	169002	5/25/99	Y	VISUAL REWORK

TALLY ITEM F1.30R 10

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.30S

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
GBC20119-H219	SNUB MECH	X-2P		MS	839044	5/25/99	Y	NRI
VT-3				I				
GBC2015-H61	VAR SUP	X-2P		MS	839045	4/1/99	Y	NRI
VT-3								
GBC2017-H332	SNUB MECH	X-2P		MS	839046	5/25/99	Y	NRI
VT-3								

TALLY ITEM F1.30S 3

OUTAGESUM

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.40

COMPID / EXAM TYPE	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK / LOOP	SYSTEM / CR NO	EXAM NO / INF	ANII SIGN-OFF	P/C	IND / RESOLUTION
2P-204(MAIN) VT-3	ANCHOR BOLTS	X-2P		HPCI	529013	4/29/99	Y	NRI
2S-211 VT-3	ANCHOR BOLTS	X-2P		HPCI	529014	4/1/99	Y	NRI
2S-212 VT-3	ANCHOR BOLTS	X-2P		RCIC	509005	4/23/99	Y	NRI
2P-506B VT-3	ANCHOR BOLTS	X-2P		RHRSW	169003	4/13/99	Y	NRI
ST BRKT SUP-C VT-3	STAB BRACK SUP	X-9RIO		RPV-E	629122 98-041	4/10/99	Y	NRI
ST BRKT SUP-D VT-3	STAB BRACK SUP	X-9RIO		RPV-E	629123 98-041	4/10/99	Y	NRI
ST BRKT SUP-E VT-3	STAB BRACK SUP	X-9RIO		RPV-E	629124 98-041	4/10/99	Y	NRI
2S-401 SKIRT VT-3	RPV SUP SKIRT(1	X-9RIO		RPV-E	629125 98-041	4/13/99	Y	NRI
RWS200-HA5 VT-3	SPRING/2P-401A	X-2P	A	RR	649049	6/16/99	Y	NRI
RWS200-HA6 VT-3	SPRING/2P-401A	X-2P	A	RR	649051	4/1/99	Y	NRI
RWS200-H47 VT-3	SNUB MECH/2P-40	X-2P		RR	649053	4/7/99	Y	NRI
RWS200-H48 VT-3	SWAY ST/2P-401A	X-2P		RR	649055	4/7/99	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - NINTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM -- AS OF: 07/16/99

CODE CATEGORY: F-A ITEM: F1.40

COMPID	DESC	EXAM SCHEDULE GUIDELINE	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	P/C	IND
EXAM TYPE			LOOP	CR NO	INF			RESOLUTION
RWS200-H50	SWAY ST/2P-401A	X-2P		RR	649057	4/7/99	Y	NRI
VT-3								

TALLY ITEM F1.40 . 13
TALLY CDECAT F-A 74

OUTAGESUM

APPENDIX C

SNUBBER TESTING DETAILED LISTING

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBA 201H 6 F-2 13/16" R-2 5/8" L-2 3/4"	02758	3	Y80001	S	3/18/99	020	3/18/99	1213	FAIL	02168	3/23/99
DBA 201H 12	19822	3	Y80100		X		X	0			X
DBA 201H 15	14417	10	Y80101		X		X	0			X
DBA 201H 16	19487	3	Y80100		X		X	0			X
DBA 201H 21	19503	3	Y80100		X		X	0			X
DBA 201H 29	14196	10	Y80101		X		X	0			X
DBA 201H 30	19482	3	Y80100		X		X	0			X
DBA 202H 7A	09476	35	Y80102		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBA 202H	7B	09494	35	Y80102		X		X	0			X
DBA 202H	10	03291	35	Y80102		X		X	0			X
DBA 202H F-2 1/4" R-3 1/2" L-3 1/4"	12	09450	35	Y80002	S	3/18/99	026	3/19/99	737	PASS		3/23/99
DBA 205H	6A	18564	1	Y80103		X		X	0			X
DBA 205H	6B	23395	1	Y80103		X		X	0			X
DBA 205H	7	01239	10	Y80104		X		X	0			X
DBA 205H	8	01240	10	Y80104		X		X	0			X
DBA 205H	11	16325	10	Y80105		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBA 205H F-2 3/8"	16 R-2 1/2"	00136 L-2 3/8"	.05	Y80003	S	3/24/99	051	3/24/99	1332	PASS		3/30/99
DBA 205H	17	00137	.05	Y80106		X		X	0			X
DBA 208H F-4 3/8"	2 R-4"	19472 L-4 3/8"	3	Y80107		3/26/99	061	3/26/99	1028	PASS		3/30/99
DBA 208H F-3 1/2"	5 R-3"	19755 L-3 3/4"	3	Y80107		3/26/99	059	3/26/99	954	PASS		3/30/99
DBA 208H F-3 3/8"	17 R-3 1/2"	19494 L-3 1/2"	3	Y80107		3/26/99	062	3/26/99	1047	PASS		3/30/99
DBA 208H F-3 3/8"	19 R-3"	06805 L-3"	3	Y80107		3/26/99	060	3/26/99	1014	PASS		3/30/99
DBB 201H	3A	01309	35	Y80108		X		X	0			X
DBB 201H	3B	01306	35	Y80108		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBB 201H 10A	01153	35	Y80108		X		X	0			X
DBB 201H 10B	01152	35	Y80108		X		X	0			X
DBB 201H 11A	14412	10	Y80109		X		X	0			X
DBB 201H 11B	04121	10	Y80109		X		X	0			X
DBB 201H 17 F-6 3/8" R-6 1/4" L-6 3/8"	00220	3L	Y80004	F	3/17/99	018	3/17/99	1426	PASS		3/20/99
DBB 201H 24 F-5 1/4" R-5 1/4" L-5 1/4"	02432	100	Y80004	R	3/17/99	019	3/17/99	1608	PASS		3/20/99
DBB 202H 4A	01156	35	Y80108		X		X	0			X
DBB 202H 4B	09485	35	Y80108		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBB 202H 10A	02765	35	Y80108		X		X	0			X
DBB 202H 10B	09531	35	Y80108		X		X	0			X
DBB 202H 12A	02575	10	Y80109		X		X	0			X
DBB 202H 12B	13677	10	Y80109		X		X	0			X
DBB 203H 3A	02563	10	Y80109		X		X	0			X
DBB 203H 3B	02568	10	Y80109		X		X	0			X
DBB 203H 9A	01271	35	Y80108		X		X	0			X
DBB 203H 9B	01272	35	Y80108		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1				CWO NO.	RCDE						
MEMO2											
MEMO3											
DBB 203H 11A	13676	10	Y80109		X		X	0			X
DBB 203H 11B	02562	10	Y80109		X		X	0			X
DBB 203H 16	00274	3L	Y80110		X		X	0			X
DBB 203H 21A	00531	100	Y80005	R	4/2/99	088	4/3/99	1240	PASS		4/6/99
F-4 1/4"	R-4 1/4"	L-4 3/8"									
DBB 203H 21B	01573	100	Y80005	R	4/2/99	087	4/3/99	1150	PASS		4/6/99
F-4 1/4"	R-4 1/4"	L-4 1/4"									
DBB 204H 2A	01278	35	Y80006	S	3/15/99	004	3/16/99	741	PASS		3/17/99
F-4"	R-3 3/4"	L-4 1/16"									
DBB 204H 2B	01260	35	Y80006	S	3/15/99	005	3/16/99	817	PASS		3/17/99
F-3 3/4"	R-3 1/4"	L-3 15/16"									
DBB 204H 4A	01171	35	Y80108		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEM01 / MEM02 / MEM03	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBB 204H 4B	01166	35	Y80108		X		X	0			X
DBB 204H 7A	14771	10	Y80109		X		X	0			X
DBB 204H 7B	00384	10	Y80109		X		X	0			X
DBB 204H 16	00400	3L	Y80110		X		X.	0			X
DBB 204H 17A F-4 7/8" R-4 3/4" L-4 7/8"	01595	100	Y80005	R	4/2/99	082	4/2/99	1259	PASS		4/6/99
DBB 204H 17B F-4 7/8" R-4 3/4" L-4 7/8"	02397	100	Y80005	R	4/2/99	081	4/2/99	1040	PASS		4/6/99
DBB 205H 2	01597	100	Y80111		X		X	0			X
DBB 205H 9 F-3 1/8" R-3 1/4" L-3" 1 LOCKING WASHER, 1 LOAD STUD,2 H-H NUTS	03634	35	Y80007	F	3/16/99	015	3/17/99	753	PASS		3/19/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBB 209H 16	19776	3	Y80008	S	3/15/99	002	3/15/99	1444	PASS		3/17/99
F-2 5/16" R-2 1/4" L-2 5/8"											
1 LOAD STUD 1 H-H NUT 3 WASHERS											
DBB 209H 18	14375	1/2	Y80112		X		X	0			X
DBB 209H 21	00134	.05	Y80113		X		X	0			X
DBB 209H 22	00135	.05	Y80114		X		X	0			X
DBB 214H 25	00118	.12	Y80115		X		X	0			X
DBB 214H 26	00119	.12	Y80116		X		X	0			X
DBB 214H 27	00122	.12	Y80117		X		X	0			X
DBB 214H 28	00138	.05	Y80118		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBB 217H 51	12950	10	Y80119		X		X	0			X
DBB 220H 2	03205	35	Y80120		X		X	0			X
DBB 220H 8	05676	10	Y80121		X		X	0			X
DBB 220H 11	12961	10	Y80121		X		X	0			X
DBB 220H 15	14425	10	Y80119		X		X	0			X
DBB 220H 17	00405	10L	Y80119		X		X	0			X
DBB 220H 52	13667	10	Y80122		X		X	0			X
DBB 220H 53	14408	10	Y80122		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBB 222H 68	19540	3	Y80123		X		X	0			X
DBD 201H 27	10725	35	Y80124		X		X	0			X
DBD 201H 32	10694	35	Y80124		X		X	0			X
DBD 201H 36A	10697	35	Y80124		X		X	0			X
DBD 201H 36B	01364	35	Y80124		X		X	0			X
DBD 201H 51	09497	35	Y80125		X		X	0			X
DBD 201H 52	09464	35	Y80124		X		X	0			X
DBD 201H 54A	03375	35	Y80124		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBD 201H 54B	10711	35	Y80124		X		X	0			X
DBD 201H 57	09513	35	Y80124		X		X	0			X
DBD 201H 60	09463	35	Y80124		X		X	0			X
DBD 201H 63	09498	35	Y80124		X		X	0			X
DBD 201H 24AA	14762	10	Y80126		X		X	0			X
DBD 201H 24AB	14760	10	Y80126		X		X	0			X
DBD 201H 24BC	14761	10	Y80126		X		X	0			X
DBD 201H 24BD	14763	10	Y80126		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DBD 205H 17	09452	35	Y80124		X		X	0			X
DBD 205H 22A F-2 1/2" R-2 3/4" L-2 3/4" 1 LOCKING WASHER	07405	35	Y80009	S	3/16/99	017	3/17/99	1031	PASS		3/19/99
DBD 205H 22B F-2 1/2" R-2 1/2" L-2 1/2" 1 LOCKING WASHER	09471	35	Y80009	S	3/16/99	016	3/17/99	947	PASS		3/19/99
DBD 205H 23A	14406	10	Y80126		X		X	0			X
DBD 205H 23B	14407	10	Y80126		X		X	0			X
DCA 202H 3	06072	3	Y80127		X		X	0			X
DCA 202H 4B	04569	3	Y80127		X		X	0			X
DCA 202H 7 F-2 1/2" R-2 1/2" L-2 1/2"	19447	3	Y80010	S	3/18/99	021	3/18/99	1351	PASS		3/20/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DCA 203H	9	20821	1	Y80128		X		X	0			X
DCA 207H	7	07402	35	Y80129		X		X	0			X
DCA 207H F-2 3/4"	12	00800 R-2 3/4"	35 L-2 7/8"	Y80011	S	3/27/99	065	3/27/99	1355	PASS		3/31/99
DCA 207H	15	09522	35	Y80129		X		X	0			X
DCA 207H F-3 1/2"	16	03477 R-3 1/4"	35 L-3 1/2"	Y80011	S	3/27/99	066	3/27/99	1434	PASS		3/31/99
DCA 208H F-3" 2 WASHERS	4	02800 R-1 1/2"	35 L-3"	Y80012	S	3/24/99	049	3/24/99	1047	PASS		3/30/99
DCA 208H	5	07389	35	Y80130		X		X	0			X
DCA 208H	6	03253	35	Y80130		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DCA 208H 7	07400	35	Y80130		X		X	0			X
DCA 210H 10	03777	35	Y80131		X		X	0			X
DCA 210H 19 F-1 1/4" R-1 1/4" L-1 3/16" 2 JAM NUTS	03203	35	Y80012	S	3/24/99	050	3/24/99	1122	PASS		3/30/99
DCA 210H 20	03184	35	Y80130		X		X	0			X
DCA 210H 21	03758	35	Y80130		X		X	0			X
DCA 210H 26	02758	35	Y80130		X		X	0			X
DCA 210H 29	01628	100	Y80132		X		X	0			X
DCA 210H 30	03677	35	Y80131		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DCA 210H 32	01575	100	Y80132		X		X	0			X
DCA 211H 3 F-2 5/8" R- REM/REINSTALL SPIDER	04123	10 L-2 5/8"	Y80133	H80268	3/14/99		X	0			4/19/99
DCA 211H 5 F-1" R- REM/REINSTALL SPIDER	19466	3 L-1 3/16	Y80134	H80268	3/14/99		X	0			4/19/99
DCA 211H 14	08711	10	Y80135		X		X	0			X
DCA 211H 15	14168	10	Y80135		X		X	0			X
DCA 211H 19	14757	10	Y80135		X		X	0			X
DCA 211H 35 F-3 5'8" R- REM/REINSTALL SPIDER	14179	10 L-3 5/8"	Y80136	H80268	3/14/99		X	0			4/19/99
DCA 211H 36	12271	10	Y80135		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID		SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1					CWO NO.	RCDE						
MEMO2												
MEMO3												
DLA 201H	3	00120	.12	Y80137		X		X	0			X
DLA 202H	2	01572	100	Y80014	S	3/18/99	024	3/18/99	1549	PASS		3/20/99
F-2"	R-2"		L-1 5/8"									
DLA 202H	8B	02398	100	Y80138		X		X	0			X
DLA 202H	9B	01179	35	Y80139		X		X	0			X
DLA 202H	11	10685	35	Y80139		X		X	0			X
DLA 202H	12	00922	35	Y80014	S	3/18/99	027	3/19/99	813	PASS		3/20/99
F-2 1/4"	R-2 1/8"		L-2 1/2"									
DLA 202H	14	03680	35	Y80139		X		X	0			X
DLA 203H	3	02275	100	Y80140		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
DLA 204H 5 F-5" R-5 1/4" L-5"	03216	35	Y80015	S	3/18/99	025	3/18/99	1640	PASS		3/23/99
DLA 204H 8B	01559	100	Y80140		X		X	0			X
DLA 204H 9A	02560	35	Y80139		X		X	0			X
DLA 204H 11	07523	35	Y80139		X		X	0			X
DLA 204H 12	00813	35	Y80139		X		X	0			X
DLA 204H 14	03679	35	Y80139		X		X	0			X
EBB 202H 3	22888	1/4	Y80141		X		X	0			X
EBB 202H 54	20410	1	Y80142		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
EBB 202H 55	20414	1	Y80142		X		X	0			X
EBB 202H 56	20413	1	Y80142		X		X	0			X
EBD 202H 2A	03557	3	Y80143		X		X	0			X
EBD 202H 2B	03558	3	Y80143		X		X	0			X
EBD 202H 7	03168	10	Y80144		X		X	0			X
EBD 202H 8A	09517	35	Y80145		X		X	0			X
EBD 202H 8B	09516	35	Y80145		X		X	0			X
EBD 202H 10	02613	35	Y80145		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF:. 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
EBD 202H 12A	03474	3	Y80143		X		X	0			X
EBD 202H 12B	03473	3	Y80143		X		X	0			X
EBD 202H 18A	09501	35	Y80145		X		X	0			X
EBD 202H 18B	09500	35	Y80145		X		X	0			X
EBD 202H 20	02581	35	Y80145		X		X	0			X
EBD 202H 22A F-3 1/2" R-3 1/2" L-3 1/2"	06831	3	Y80016	S	3/18/99	030	3/19/99	1107	PASS		3/23/99
EBD 202H 22B F-3 1/2" R-3 1/2" L-3 1/2"	06832	3	Y80016	S	3/18/99	029	3/19/99	1035	PASS		3/23/99
EBD 202H 29	03764	35	Y80146		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
EBD 202H 30	14200	10	Y80147		X		X	0			X
EBD 202H 31	02606	35	Y80145		X		X	0			X
EBD 202H 34	02595	35	Y80145		X		X	0			X
EBD 202H 35A	08699	10	Y80144		X		X	0			X
EBD 202H 35B	02196	10	Y80144		X		X	0			X
EBD 202H 37	02558	35	Y80146		X		X	0			X
EBD 202H 38	14202	10	Y80147		X		X	0			X
EBD 202H 44	03152	10	Y80147		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
EBD 202H 47	02562	35	Y80146		X		X	0			X
EBD 202H 48	09523	35	Y80146		X		X	0			X
EBD 202H 51	02559	35	Y80145		X		X	0			X
EBD 202H 52A	09507	35	Y80145		X		X	0			X
EBD 202H 52B	09508	35	Y80145		X		X	0			X
EBD 202H 54A F-3 1/2" R-3 1/2" L-3 7/16"	02584	35	Y80016	S	3/16/99	013	3/16/99	1606	PASS		3/23/99
EBD 202H 54B F-2 5/8" R-1/8" L-2 9/16"	02590	35	Y80016	S	3/16/99	012	3/16/99	1532	PASS		3/23/99
EBD 202H 61A	03487	3	Y80143		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1				CWO NO.	RCDE						
MEMO2											
MEMO3											
EBD 202H 61B	03484	3	Y80143		X		X	0			X
EBD 202H 65A	19495	3	Y80148		X		X	0			X
EBD 202H 65B	03124	3	Y80148		X		X	0			X
EBD 202H 66	09499	35	Y80013	S	3/16/99	014	3/17/99	1701	PASS		3/24/99
F-3 7/16" R-2 7/8" L-3 7/16"											
1 LOCKING WASHER											
EBD 202H 67	19493	3	Y80148		X		X	0			X
EBD 202H 68A	09509	35	Y80145		X		X	0			X
EBD 202H 68B	09510	35	Y80145		X		X	0			X
EBD 209H 1	19531	3	Y80149		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
EBD 209H	2	20400	1	Y80150		X		X	0			X
EBD 209H	4A	02425	1	Y80150		X		X	0			X
EBD 209H	4B	20405	1	Y80150		X		X	0			X
EBD 210H F-4 5/8"	2	00463 R-1 3/4"	3L L-4 5/8"	Y80151		3/20/99	040	3/20/99	1419	FAIL	00392	3/24/99
EBD 210H F-2 1/2" LOAD STUD, 2 H-H NUTS, 2 JAM NUTS.	4	19455 R-2 1/2"	3 L-2 3/8"	Y80151		3/20/99	039	3/20/99	1341	FAIL	25260	3/24/99
EBD 210H F-3 3/8"	5	04623 R-3 3/8"	3 L-3 1/2"	Y80017	S	3/15/99	001	3/15/99	1406	FAIL	19588	3/17/99
EBD 213H F-1 1/8"	4	19526 R-1 1/4"	3 L-1"	Y80152		3/20/99	037	3/20/99	1045	FAIL	25289	3/30/99
EBD 213H F-1"	5	19790 R-1 1/4"	3 L-2 1/16"	Y80152		3/20/99	038	3/20/99	1119	FAIL	25281	3/30/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
EBD 214H 57 F-2 7/8" R-2 7/8" L-2 3/4"	14166	10	Y80018	S	3/16/99	008	3/16/99	1125	PASS		3/17/99
GBB 202H 52	14439	1/2	Y80153		X		X	0			X
GBB 204H 3 F-3 1/4" R-3 1/4" L-2 3/4"	01340	35	Y80019	S	3/19/99	034	3/19/99	1528	PASS		3/31/99
GBB 204H 21	03690	35	Y80154		X		X	0			X
GBB 204H 82	03190	35	Y80154		X		X	0			X
GBB 204H 83	11023	35	Y80154		X		X	0			X
GBB 204H 89 F-3 1/4" R-3 1/4" L-3"	03153	10	Y80020	S	3/22/99	044	3/23/99	1354	PASS		3/30/99
GBB 204H 93	06966	35	Y80155		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1 / MEMO2 / MEMO3											
GBB 204H 95	06958	35	Y80155		X		X	0			X
GBB 204H 101	09447	35	Y80156		X		X	0			X
GBB 205H 85A	03691	35	Y80021	S	3/22/99	041	3/22/99	1009	PASS		3/30/99
F-2 1/8" R-2" L-1 9/16"											
GBB 205H 85B	03689	35	Y80021	S	3/22/99	042	3/22/99	1050	PASS		3/30/99
F-2 1/2" R-3" L-2 1/16"											
GBB 205H 89A	10714	35	Y80155		X		X	0			X
GBB 205H 89B	09487	35	Y80155		X		X	0			X
GBB 206H 18	03250	35	Y80020	S	3/22/99	043	3/22/99	1203	PASS		3/30/99
F-1 3/4" R-2" L-2 1/16"											
NEW I.O. TAG. INDICATOR TUBE SCREW											
GBB 206H 51	09444	35	Y80156		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBB 207H 27A F-3 3/8" R-3 1/4" L-3 1/4" 1 WASHER, 1 SNAP RING	12402	10	Y80022	S	3/24/99	047	3/24/99	941	PASS		3/30/99
GBB 207H 27B F-3 3/8" R-3 1/4" L-3 1/4"	04373	10	Y80022	S	3/24/99	048	3/24/99	1005	PASS		3/30/99
GBB 209H 58A F-3" R-3" L-3"	09529	35	Y80023	S	3/19/99	033	3/19/99	1314	PASS		3/22/99
GBB 209H 58B F-3 1/8" R-3 1/8" L-3 1/8"	09530	35	Y80023	S	3/19/99	032	3/19/99	1354	PASS		3/22/99
GBB 209H 60A	09527	35	Y80157		X		X	0			X
GBB 209H 60B	09526	35	Y80157		X		X	0			X
GBB 209H 67	03470	10	Y80158		X		X	0			X
GBB 210H 50 F-1 3/4" R-2 1/4" L-1 7/8"	20828	1	Y80020	S	3/22/99	045	3/23/99	1520	PASS		3/30/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBB 210H 53	20827	1	Y80159		X		X	0			X
GBB 211H 52	02418	1	Y80160		X		X	0			X
GBB 211H 54	21573	1	Y80161		X		X	0			X
GBB 212H 58 F-2 1/8" R-2 1/8" L-2 5/16"	19524	3	Y80162		3/29/99	067	3/29/99	1614	PASS		3/31/99
GBB 218H 12 F-2 5/8" R-2 1/2" L-2 5/8" PL-1	03581	3	Y80163		3/30/99	068	3/30/99	1004	DEGRADE	19446	4/2/99
GBC 201H 102	03217	35	Y80165		X		X	0			X
GBC 201H 107 F-3" R-3 5/8" L-3"	03675	35	Y80024	S	3/26/99	058	3/26/99	1039	PASS		3/31/99
GBC 201H 115 F-2 3/8" R-2 5/8" L-2 1/2"	03268	35	Y80024	S	3/26/99	057	3/26/99	729	PASS		3/31/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE.	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 116	03277	35	Y80166		X		X	0			X
GBC 201H 119A	03733	35	Y80167		X		X	0			X
GBC 201H 119B	03732	35	Y80167		X		X	0			X
GBC 201H 120	04097	35	Y80168		X		X	0			X
GBC 201H 122	04099	35	Y80166		X		X	0			X
GBC 201H 125A	10891	35	Y80167		X		X	0			X
GBC 201H 125B	03649	35	Y80167		X		X	0			X
GBC 201H 134	03223	35	Y80166		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEM01 / MEM02 / MEM03	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 137A F-3 3/4" R-3 3/4" L-3 7/8"	03491	10	Y80024	S	3/25/99	052	3/25/99	951	PASS		3/31/99
GBC 201H 137B F-3 5/8" R-3 1/2" L-3 3/4"	02605	10	Y80024	S	3/25/99	053	3/25/99	1014	FAIL	12955	3/31/99
GBC 201H 141	03288	35	Y80169		X		X	0			X
GBC 201H 143A	03199	35	Y80169		X		X	0			X
GBC 201H 143B	03245	35	Y80169		X		X	0			X
GBC 201H 144	06948	35	Y80170		X		X	0			X
GBC 201H 147	03282	35	Y80165		X		X	0			X
GBC 201H 148	03258	35	Y80165		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 154	03776	35	Y80164		X		X	0			X
GBC 201H 157	07398	35	Y80165		X		X	0			X
GBC 201H 162	03280	35	Y80165		X		X	0			X
GBC 201H 163	02744	35	Y80165		X		X	0			X
GBC 201H 165	04122	35	Y80168		X		X	0			X
GBC 201H 166	03271	35	Y80166		X		X	0			X
GBC 201H 168	03247	35	Y80166		X		X	0			X
GBC 201H 180	03254	35	Y80165		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 181	03278	35	Y80165		X		X	0			X
GBC 201H 183	03237	35	Y80165		X		X	0			X
GBC 201H 187	03632	35	Y80164		X		X	0			X
GBC 201H 193	03686	35	Y80171		X		X	0			X
GBC 201H 196	03255	35	Y80171		X		X	0			X
GBC 201H 197	03662	35	Y80171		X		X	0			X
GBC 201H 203	10688	35	Y80171		X		X	0			X
GBC 201H 212	07390	35	Y80172		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 217	07397	35	Y80172		X		X	0			X
GBC 201H 218	03486	35	Y80172		X		X	0			X
GBC 201H 219A	02681	35	Y80173		X		X	0			X
GBC 201H 219B	03743	35	Y80173		X		X	0			X
GBC 201H 220A	03170	35	Y80173		X		X	0			X
GBC 201H 220B	03174	35	Y80173		X		X	0			X
GBC 201H 221A	03744	35	Y80173		X		X	0			X
GBC 201H 221B	01157	35	Y80173		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 225	00918	35	Y80174		X		X	0			X
GBC 201H 231	03670	35	Y80169		X		X	0			X
GBC 201H 232	08649	35	Y80169		X		X	0			X
GBC 201H 233	03476	35	Y80169		X		X	0			X
GBC 201H 237A	08636	35	Y80170		X		X	0			X
GBC 201H 237B	08640	35	Y80170		X		X	0			X
GBC 201H 242	04120	35	Y80165		X		X	0			X
GBC 201H 247	03687	35	Y80165		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 248	03478	35	Y80165		X		X	0			X
GBC 201H 252	03674	35	Y80169		X		X	0			X
GBC 201H 253	03671	35	Y80169		X		X	0			X
GBC 201H 254A	03734	35	Y80170		X		X	0			X
GBC 201H 254B	03735	35	Y80170		X		X	0			X
GBC 201H 255	03769	35	Y80170		X		X	0			X
GBC 201H 262	03688	35	Y80169		X		X	0			X
GBC 201H 265	07392	35	Y80169		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 272	03721	35	Y80174		X		X	0			X
GBC 201H 273	03191	35	Y80169		X		X	0			X
GBC 201H 276	03204	35	Y80169		X		X	0			X
GBC 201H 277A	03215	35	Y80171		X		X	0			X
GBC 201H 281	03723	35	Y80165		X		X	0			X
GBC 201H 301 F-2 1/4" R-1 3/4" L-2 1/4"	14214	10	Y80175		3/30/99	069	3/30/99	1511	PASS		4/3/99
GBC 201H 318A F-3 1/4" R-3 1/4" L-3 1/4"	14213	10	Y80175		3/30/99	072	3/30/99	727	PASS		4/3/99
GBC 201H 318B F-3" R-3 1/4" L-3"	14212	10	Y80175		3/30/99	071	3/30/99	1557	PASS		4/3/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
GBC 201H 332	09519	35	Y80164		X		X	0			X
GBC 201H 336 F-3" R-1 3/4" L-3"	02508	10	Y80176		3/30/99	070	3/30/99	1530	PASS		4/3/99
GBC 201H 338	02073	10	Y80177		X		X	0			X
GBC 201H 342	09468	35	Y80167		X		X	0			X
GBC 205H 52A F-2 3/4" R-2 5/8" L-2 3/4"	14423	10	Y80178		4/1/99	073	4/1/99	945	PASS		4/3/99
GBC 205H 52B F-2 3/4" R-1/8" L-2 7/8"	14424	10	Y80178		4/1/99	074	4/1/99	1016	PASS		4/3/99
GBD 222H 5	14198	10	Y80179		X		X	0			X
HBB 201H 3	10706	35	Y80180		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
HBB 201H F-2"	5 R-1 3/4"	19545	3 L-2"	Y80181		3/26/99	063	3/26/99	1317	PASS		3/30/99
HBB 204H	51	14414	10	Y80182		X		X	0			X
HBB 208H	3	09443	35	Y80183		X		X	0			X
HBC 217H	11	14422	10	Y80184		X		X	0			X
HBD 201H	1	03669	35	Y80185		X		X	0			X
HBD 201H	3	06840	3	Y80187		X		X	0			X
HBD 201H	4	06834	3	Y80187		X		X	0			X
HBD 201H	5	06835	3	Y80187		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
HBD 201H	6	14426	10	Y80188		X		X	0			X
HBD 201H	8	01503	35	Y80185		X		X	0			X
HBD 201H	10A	12952	10	Y80188		X		X	0			X
HBD 201H	10B	04258	10	Y80188		X		X	0			X
HBD 201H	11	19546	3	Y80187		X		X	0			X
HBD 201H	12A	03137	3	Y80187		X		X	0			X
HBD 201H	12B	02116	3	Y80187		X		X	0			X
HBD 201H	16A	13680	10	Y80188		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
HBD 201H	16B	14194	10	Y80188		X		X	0			X
HBD 201H	17	19508	3	Y80187		X		X	0			X
HBD 201H F-2 1/2"	18	20411 R-2 1/2"	1 L-2 1/2"	Y80025	S	3/19/99	031	3/19/99	1247	PASS		3/23/99
HBD 201H	20	09536	35	Y80185		X		X	0			X
HBD 203H	1A	04260	10	Y80189		X		X	0			X
HBD 203H	1B	04259	10	Y80189		X		X	0			X
HBD 203H	3A	04996	1	Y80190		X		X	0			X
HBD 203H	3B	17226	1	Y80190		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
HBD 203H 4A F-3 1/4" R-4 3/4" L-3 1/2"	01599	100	Y80026	R	3/20/99	035	3/20/99	739	PASS		3/23/99
HBD 203H 4B F-3" R-2 1/4" L-2 1/4"	01570	100	Y80026	S	3/19/99	028	3/19/99	938	PASS		3/23/99
HBD 203H 6A F-3 1/8" R-2 7/8" L-3 1/8"	04572	10	Y80027	S	3/16/99	006	3/16/99	947	PASS		3/19/99
HBD 203H 6B F-3 1/16" R-3" L-3 1/8"	04571	10	Y80027	S	3/16/99	007	3/16/99	1017	PASS		3/19/99
HBD 203H 8A	00239	1	Y80190		X		X	0			X
HBD 203H 8B	23387	1	Y80190		X		X	0			X
HBD 203H 11A	04574	10	Y80189		X		X	0			X
HBD 203H 11B	04576	10	Y80189		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEM01 / MEM02 / MEM03		SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
HBD 203H	13A	12202	1	Y80190		X		X	0			X
HBD 203H	13B	04989	1	Y80190		X		X	0			X
HBD 203H	9AA	10892	35	Y80186		X		X	0			X
HBD 203H	9AB	10893	35	Y80186		X		X	0			X
HBD 203H	9BC	01567	100	Y80191		X		X	0			X
HCB 203H	53A	08651	35	Y80192		X		X	0			X
HCB 203H	53B	08652	35	Y80192		X		X	0			X
HCC 203H F-1 5/16"	56	20832 R-1 1/4"	1 L-1 1/4"	Y80028	S	3/16/99	011	3/16/99	1442	PASS		3/22/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1				CWO NO.	RCDE						
MEMO2											
MEMO3											
HCC 206H 6	14431	10	Y80193		X		X	0			X
HCC 206H 10A F-2 1/2" R-2 1/2" L-2 5/8" 2 WASHERS, 2 SNAP RINGS	19840	3	Y80194		3/25/99	056	3/25/99	1525	PASS		3/30/99
HCC 206H 10B F-2 1/2" R-2 1/4" L-2 3/8" 2 SNAP RINGS	19806	3	Y80194		3/25/99	055	3/25/99	1503	PASS		3/30/99
HRC 224H 80 F-2 1/2" R-2 1/4" L-2"	20794	1	Y80029	S	3/27/99	064	3/27/99	1333	PASS		3/31/99
HRC 228H 30	02868	1	Y80195		X		X	0			X
MSL 200H 1 F-1 7/8" R-1 7/8" L-1 13/16"	09528	35	Y80030	R	4/2/99	086	4/3/99	1021	PASS		4/10/99
MSL 200H 2 F-2 3/4" R-2 3/4" L-2 3/4" 2 SNAP RINGS, 1 LOCKING WASHER RING	03747	35	Y80030	R	4/2/99	080	4/2/99	953	PASS		4/10/99
MSL 200H 3 F-2 3/4" R-1 1/2" L-2 3/4" 1 LOCKING WASHER	00882	35	Y80030	R	4/2/99	085	4/3/99	833	PASS		4/10/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1				CWO NO.	RCDE						
MEMO2											
MEMO3											
MSL 200H 7	01301	35	Y80030	R	4/1/99	075	4/1/99	1124	PASS		4/10/99
F-4" R-4" L-4 1/2"											
1 LOCKING WASHER											
MSL 200H 9A	01293	35	Y80030	R	4/2/99	083	4/2/99	1408	FAIL	09483	4/10/99
F-3 1/4" R-E 1/4" L-3 3/16"											
TAPERED PIN, 2 WASHERS, 1 LOCK WSHR PIN											
MSL 200H 9B	08610	35	Y80030	R	4/2/99	084	4/2/99	1452	PASS		4/10/99
F-4" R-4" L-4 1/16"											
1 LOCKING WASHER, 1 TAPERED PIN											
MSL 200H 10A	09445	35	Y80030	R	4/1/99	076	4/1/99	1349	PASS		4/10/99
F-2 1/8" R-2 1/4" L-2 3/8"											
1 LOCKING WASHER RING,WELD DMG REAR BRKT											
1 PVT PIN,2 SNAP RINGS,2 WASHERS;CR93737											
MSL 200H 10B	03672	35	Y80030	R	4/1/99	077	4/1/99	1430	PASS		4/10/99
F-2 3/4" R-2 3/4" L-2 7/8"											
2 IND SCRWS,1 LCK WSH RNG,WLD DMG R.BRKT											
1 PVT PIN,2 SNP RINGS,2 WASHERS,CR93737											
MSL 200H 11A	03750	35	Y80030	R	4/1/99	078	4/1/99	1558	PASS		4/10/99
F-3 1/2" R-3 1/2" L-3 5/8"											
1 TAPERED PIN, 1 ROD EYE											
MSL 200H 11B	03751	35	Y80030	R	4/1/99	079	4/1/99	1515	PASS		4/10/99
F-3 1/4" R- 3 1/4" L-3 5/8"											
1 ROD EYE											
MST 222H 11	03479	35	Y80196		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MST 222H 12	03274	35	Y80196		X		X	0			X
MST 222H 16	03284	35	Y80197		X		X	0			X
MST 222H 17	01601	100	Y80198		X		X	0			X
MST 222H 19	03249	35	Y80197		X		X	0			X
MST 222H 20	03275	35	Y80196		X		X	0			X
MST 222H 22	01577	100	Y80198		X		X	0			X
MST 222H 24	02679	35	Y80199		X		X	0			X
MST 222H 27	03286	35	Y80199		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MST 222H 29	03663	35	Y80200		X		X	0			X
MST 222H 30	07393	35	Y80200		X		X	0			X
MST 222H 31	06947	35	Y80200		X		X	0			X
MST 222H 32	03714	35	Y80200		X		X	0			X
MST 222H 35	03272	35	Y80200		X		X	0			X
MST 222H 36A	03209	35	Y80196		X		X	0			X
MST 222H 36B	03212	35	Y80196		X		X	0			X
MST 222H 37 F-3 1/2" R-3 1/2" L-3 5/8"	01563	100	Y80031	S	3/18/99	023	3/18/99	1509	PASS		3/20/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MST 222H 38	02431	100	Y80198		X		X	0			X
MST 222H 39	07385	35	Y80197		X		X	0			X
MST 222H 41	03489	35	Y80197		X		X	0			X
MST 222H 42A	08621	35	Y80200		X		X	0			X
MST 222H 42B	01184	35	Y80200		X		X	0			X
MST 222H 44	03473	35	Y80197		X		X	0			X
MST 222H 47	02659	35	Y80201		X		X	0			X
MST 222H 48	01565	100	Y80198		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1				CWO NO.	RCDE						
MEMO2											
MEMO3											
MST 222H 49	03364	35	Y80199		X		X	0			X
MST 222H 50	02847	35	Y80197		3/20/99		X	0			4/1/99
F 2 5/8" R L 2 5/8"				H80387							
REM/REINSTALL INTERFERENCED											
RWS 200H 12	03492	35	Y80202		X		X	0			X
RWS 200H 14	07526	35	Y80203		X		X	0			X
RWS 200H 25A	03772	35	Y80204		X		X	0			X
RWS 200H 25B	03771	35	Y80204		X		X	0			X
RWS 200H 26A	03773	35	Y80205		X		X	0			X
RWS 200H 26B	03774	35	Y80205		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
RWS 200H 29	03708	35	Y80204		X		X	0			X
RWS 200H 30	03719	35	Y80204		X		X	0			X
RWS 200H 31	03710	35	Y80205		X		X	0			X
RWS 200H 32	03713	35	Y80205		X		X	0			X
RWS 200H 33	12629	35	Y80204		X		X	0			X
RWS 200H 34	07387	35	Y80204		X		X	0			X
RWS 200H 35	03717	35	Y80205		X		X	0			X
RWS 200H 36	03715	35	Y80205		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
RWS 200H 38	09454	35	Y80203		X		X	0			X
RWS 200H 40	03208	35	Y80202		X		X	0			X
RWS 200H 41	00571	100	Y80206		X		X	0			X
RWS 200H 42	01797	100	Y80206		X		X	0			X
RWS 200H 44	02427	100	Y80207		X		X	0			X
RWS 200H 46	00632	100	Y80208		X		X	0			X
RWS 200H 47	02399	100	Y80208		X		X	0			X
RWS 200H 49	01262	100	Y80208		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
SPDBA 205H3001 F-2 1/4" R-2 1/4" L-2 1/4" 2 SNAP RINGS	23620	1/4	Y80209		3/20/99	036	3/20/99	1007	PASS		3/31/99
SPDBA 208H 1	14466	1/2	Y80210		X		X	0			X
SPDBA 212H2602	19843	3	Y80211		X		X	0			X
SPDBA 212H2609	20854	1	Y80212		X		X.	0			X
SPDBA 212H2616	20846	1	Y80212		X		X	0			X
SPDBA 212H2638	20857	1	Y80213		X		X	0			X
SPDBA 212H2650 F-2 1/16" R-2. 1/4" L-2 3/16"	20860	1	Y80032	S	3/25/99	054	3/25/99	1132	PASS		3/31/99
SPDBB 208H 13 F-1 3/4" R-1 3/4" L-1 5/8"	23045	1/4	Y80033	S	3/16/99	009	3/16/99	1125	FAIL	14332	3/17/99

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
SPDBB 208H 17	09937	1/2	Y80214		X		X	0			X
SPDBB 208H 87	14462	1/2	Y80214		X		X	0			X
SPDBB 208H 88	20824	1	Y80215		X		X	0			X
SPDBB 208H 89 F-1 1/2" R-1 1/2" L-1 3/8"	09922	1/2	Y80033	F	3/16/99	010	3/16/99	1328	PASS		3/17/99
SPDBB 221H5006A	21546	1	Y80216		X		X	0			X
SPDBB 221H5006B	21545	1	Y80216		X		X	0			X
SPDBB 221H5012	18579	1	Y80216		X		X	0			X
SPDBB 221H5013	18567	1	Y80216		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
SPDCA 202H 10	19760	3	Y80217		X		X	0			X
SPDCA 202H 20	21560	1	Y80218		X		X	0			X
SPDCA 202H 21	19837	3	Y80219		X		X	0			X
SPDCA 202H 22	06573	3	Y80219		X		X	0			X
SPDCA 202H 23	11128	1	Y80220		X		X	0			X
SPDCA 202H2600 F-2 3/8" R-2 3/8" L-2 3/8"	18830	1	Y80034	F	3/18/99	022	3/18/99	1443	PASS		3/20/99
SPDCA 202H2602	18569	1	Y80218		X		X	0			X
SPDCA 210H5006A	03590	1	Y80221		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
SPDCA 220H5021	17186	1/2	Y80222		X		X	0			X
SPDCA 229H3002	28812	1/4	Y80223		X		X	0			X
SPDCA 229H3004	21095	1/4	Y80223		X		X	0			X
SPDCA 229H3005	23627	1/4	Y80223		X		X	0			X
SPDCA 233H3005	16369	1/4	Y80224		X		X	0			X
SPDCA 233H3008 F-1 1/8" R-1 1/4" L-1 1/8" 1 SNAP RING, 1 WASHER	14395	1/2	Y80035	F	3/23/99	046	3/23/99	1301	FAIL	14437	3/30/99
SPDCA 243H5001A	21557	1	Y80225		X		X	0			X
SPDCA 243H5001B	00242	1	Y80225		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID / MEMO1 / MEMO2 / MEMO3	SERIAL	SIZE	WA NO.	ORIGIN / CWO NO.	REMOVED / RCDE	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
SPDCA 245H2608A	21531	1	Y80226		X		X	0			X
SPDCA 245H2608B	21530	1	Y80226		X		X	0			X
SPDCA 245H2615	19750	3	Y80227		X		X	0			X
SPDCA 245H5001	19464	3	Y80227		X		X	0			X
SPDCA 245H5016	20792	1	Y80228		X		X	0			X
SPGBB 222H5008	20822	1	Y80229		X		X	0			X
SPGBB 222H5011	21544	1	Y80230		X		X	0			X
SPHBB 208H5004	14405	1/2	Y80231		X		X	0			X

UNIT 2 - 9 RFO -- SNUBBER FUNCTIONAL EXAMS -- DAILY TRACKING LOG
AS OF: 04/23/99 TIME: 14.03.02

SNUBBER ID	SERIAL	SIZE	WA NO.	ORIGIN	REMOVED	JOHN EXAM	TEST DATE	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALL DATE
MEMO1				CWO NO.	RCDE						
MEMO2											
MEMO3											
SPHBB 208H5008	13404	1/2	Y80036	S	3/15/99	003	3/15/99	1620	PASS		3/17/99
F-1 5/16" R-1 1/2" L-1 1/2"											
SPHBB 251H5005	06314	1/4	Y80232		X		X	0			X
SPHCB 226H5027	21553	1	Y80233		X		X	0			X

TOTAL: 435

APPENDIX D

ASME REPAIRS AND REPLACEMENTS NIS-2 Forms

APPENDIX D.1

MECHANICAL MAINTENANCE NIS-2 Forms

UNIT 2 NINTH 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 2 Ninth 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 Seciton XI Repairs and Replacements.

3.1 SECTION XI REPAIRS AND REPLACEMENTS

W.A. NO.	522 FORM NO.	DISCRIPTION OF WORK
		SYSTEM NO. 211A, ASME CLASS III
H60627	97-211-001	10"-HRC-209-2, REPLACED 1 PIPE FLANGE STUD
P70416	97-211-002	REPLACED HEAT EXCHANGER NOZZLES
P70416	97-211-003	REPAIRED 8" NOZZLE AND CHANNEL WELDS
P62798	97-211-004	209090, PIPE PLUG
		SYSTEM NO. 216A, ASME CLASS III
V70102	97-216-004	PT21203A-R1, REPLACED STEM/DISC AND BACKSEAT BUSHING
S15326	95-116-004	2P506B REPAIRED TOP CASE, SHOP ACTIVITIES
S15326	95-116-005	2P506B, REPLACED NUTS AND STUDS, SHOP ACTIVITIES
S15326	95-116-006	2P506B, REPLACED NUTS AND STUDS, SHOP ACTIVITIES
V81324	98-216-001	2P506B REPLACED COLUMNS AND COLUMN STUDS AND NUTS
V81383	98-216-003	2P506A, REPLACED NUTS AND STUDS, SHOP ACTIVITES
V81654	98-216-002	2P506A REPLACED COLUMNS AND COLUMN STUDS AND NUTS
P80151	98-216-004	212003, REPLACED VALVE PACKING LEAK OFF PLUG
V90674	99-216-001	HRC-214-H1, REPLACED PIPE SUPPORT SWAY STRUT ENDS
		SYSTEM NO. 225A, ASME CLASS III
V90914	99-225-001	PCV-22648, VALVE REPLACEMENT

SYSTEM NO.234D, ASME CLASS III

V53209	95-234-009	REPLACED FLEX HOSE WITH NEW HOSE
V53897	95-234-001	REPLACED FLEX HOSE WITH NEW HOSE
V53896	95-234-012	REPLACED FLEX HOSE WITH NEW HOSE
V63056	96-234-001	REPLACED FLEX HOSE WITH NEW HOSE
V63809	97-234-002	REPLACED FLEX HOSE WITH NEW HOSE
V63810	97-234-003	REPLACED FLEX HOSE WITH NEW HOSE
V73423	97-234-009	REPLACED FLEX HOSE WITH NEW HOSE
P80212	98-234-005	REPAIRED HEADER LIGAMENTS BY WELDING
P81045	98-234-006	REPAIRED HEADER LIGAMENTS BY WELDING
V80222	98-234-007	REPLACED FLEX HOSE WITH NEW HOSE.
P83124	98-234-013	REPAIRED HEADER LIGAMENTS BY WELDING
P83511	98-234-014	REPAIRED HEADER LIGAMENTS BY WELDING

SYSTEM NO. 234E, ASME CLASS III

P64810	97-234-004	REPLACED BOLTING

SYSTEM NO. 234F, ASME CLASS III

V63234	96-234-002	2E228B, REPLACED FLEX HOSE

SYSTEM NO. 234G, ASME CLASS III

V63237	96-234-003	REPLACE UPPER COOLER FLEX HOSE
V63132	97-234-006	REPLACE LOWER COIL LOWER FLEX HOSE
V64595	97-234-007	REPLACE HEAT EXCHANGER NUTS
P81669	98-234-010	REPAIR HEADER LIGAMENTS AND GASKET SEATING
P83839	98-234-012	REPAIR HEADER LIGAMENTS AND GASKET SEATING
P83509	99-234-001	REPAIR HEADER LIGAMENTS AND GASKET SEATING

SYSTEM NO. 234U, ASME CLASS III

V70593	97-234-004	RV-PI-21190A, REPLACE STEM/DISC & BACKSEAT
V70594	97-234-005	RV-PP-21192A, REPLACE STEM/DISC & BACKSEAT
V70526	98-234-003	272019, REPLACE STEM/DISC & BACKSEAT
V90834	99-234-002	211136, REPLACE BONNET, DISC AND BOLTING

SYSTEM NO. 235B, ASME CLASS III

V81956	98-235-001	253009A, REPLACE VALVE DISC AND PIPE PLUG

SYSTEM NO. 245A, ASME CLASS II

V63463	96-245-001	HV24182A REPLACED LEAK OFF PLUG BY WELDING
H40648	96-245-002	HV-241F032A REPAIR/WELD DURING SEAT REPLACEMENT
H40649	96-245-003	HV-241F032B REPAIR/WELD DURING SEAT REPLACEMENT
V90659	99-245-001	HV-241F032A REPAIR/WELD DURING SEAT REPLACEMENT
V63107	96-252-001	HV255F006, REPLACE VALVE PLUG

SYSTEM NO. 249A, ASME CLASS II

V71751	98-249-003	251F034D, REPLACE PIPE PLUG
V71752	98-249-004	251F034B, REPLACE PIPE PLUG
V81693	99-249-001	251F046C, REMOVE AND REPLACE VALVE WITH NEW
V90406	99-249-002	HV251F017A, REPLACE PLUG ASSEMBLY
V90496	99-249-005	HV251F017B, REPLACE NEW DESIGN PLUG
V90497	99-249-009	HV251F017A, REPLACE NEW DESIGN PLUG

SYSTEM NO. 249A, ASME CLASS III

P70289	97-249-001	SPHBC240-H5003, REWELDED CLIP ON HANGER

SYSTEM NO. 249B, ASME CLASS II

V90587	99-249-004	2E205B, REPLACE & RETORQUE HTX
V81731	99-249-006	RV-CE-E11-2N001B, REPLACE CONDUCTIVITY ELEMENT
P82762	99-249-008	2E205B/SPHRC235-H9001, REPLACE BOLTING
V98672	99-249-010	2E205B, EXCAVATION/INVESTIGATION OF INDICATIONS
V98672	99-249-011	2E205B, REPAIRED HTX LINEAR INDICATIONS.
P90959	99-249-012	2E205B, EXCAVATION/INVESTIGATION OF INDICATIONS
P90959	99-249-013	2E205A, REPAIRED HTX LINEAR INDICATIONS.

SYSTEM NO. 250B, ASME CLASS I

V71603	99-250-001	HV249F008, REPLACE PIPE PLUG

SYSTEM NO. 250B, ASME CLASS II

P81046	98-250-001	PSE2D001&2 REPLACED RUPTURE DISCS
V80281	98-250-004	HV25012, REPLACED PIPE PLUG

SYSTEM NO. 251A, ASME CLASS II

P83047	98-251-006	PSV 252F032A, REPLACED RELIEF VALVE
V70608	98-251-004	252F002B, REPLACED PIPE PLUG.

SYSTEM NO. 252B, ASME CLASS II

V81113	98-252-003	255F055, REPLACE STEM/DISC ASSM
V81113	98-252-004	255F056, REPLACE STEM/DISC ASSM
V63788	98-252-005	HV256F025, REPLACED STEM & PLUG ASSM

SYSTEM NO. 253A, ASME CLASS II

V71766	97-253-002	48F033A, REPLACED CHECK VALVE DISC .
H80180	99-253-001	52F004B, SQUIBB INLET FITTING AND TRIGGER ASSM
H80590	99-253-002	52F004A, SQUIBB INLET FITTING AND TRIGGER ASSM
V90748	99-253-003	CB-205-1, FLG M-1, REPLACED BOLTING

SYSTEM NO. 255B, ASME CLASS II

V73010	98-255-001	HCU-4235, REPLACED NITROGEN ACCUMULATOR
V73011	98-255-002	HCU-2643, REPLACED NITROGEN ACCUMULATOR
V81156	98-255-005	HCU-3807, REPLACED VALVE 247F101
V81374	98-255-006	HCU-3459, REPLACED NITROGEN ACCUMULATOR
V81497	98-255-007	HCU-0239, REPLACED NITROGEN ACCUMULATOR
V81498	98-255-008	HCU-1039, REPLACED NITROGEN ACCUMULATOR
V81499	98-255-009	HCU-1807, REPLACED NITROGEN ACCUMULATOR
V81500	98-255-010	HCU-2219, REPLACED NITROGEN ACCUMULATOR
V81501	98-255-011	HCU-2615, REPLACED NITROGEN ACCUMULATOR
V81502	98-255-012	HCU-2647, REPLACED NITROGEN ACCUMULATOR
V81503	98-255-013	HCU-3407, REPLACED NITROGEN ACCUMULATOR
V81504	98-255-014	HCU-3419, REPLACED NITROGEN ACCUMULATOR
V81505	98-255-015	HCU-3455, REPLACED NITROGEN ACCUMULATOR
V81506	98-255-016	HCU-3859, REPLACED NITROGEN ACCUMULATOR
V81507	98-255-017	HCU-4259, REPLACED NITROGEN ACCUMULATOR
V81508	98-255-018	HCU-4627, REPLACED NITROGEN ACCUMULATOR
V81509	98-255-019	HCU-5027, REPLACED NITROGEN ACCUMULATOR
V81510	98-255-020	HCU-5035, REPLACED NITROGEN ACCUMULATOR
V80764	98-255-021	HCU-4623, REPLACED NITROGEN ACCUMULATOR
V71718	98-255-022	HCU-3035, REPLACED NITROGEN ACCUMULATOR
V81887	98-255-023	HCU-0243, REPLACED DISC IN VALVE-147112
V81888	98-255-024	HCU-0627, REPLACED DISC IN VALVE-147112
V81889	98-255-025	HCU-0639, REPLACED DISC IN VALVE-147112
V81890	98-255-026	HCU-1431, REPLACED DISC IN VALVE-147112
V81891	98-255-027	HCU-1443, REPLACED DISC IN VALVE-147112
V81892	98-255-028	HCU-1851, REPLACED DISC IN VALVE-147112
V81893	98-255-029	HCU-2247, REPLACED DISC IN VALVE-147112
V81894	98-255-030	HCU-2643, REPLACED DISC IN VALVE-147112
V81895	98-255-031	HCU-2647, REPLACED DISC IN VALVE-147112
V81896	98-255-032	HCU-3815, REPLACED DISC IN VALVE-147112
V81897	98-255-033	HCU-4211, REPLACED DISC IN VALVE-147112
V81898	98-255-034	HCU-4219, REPLACED DISC IN VALVE-147112
V81899	98-255-035	HCU-4223, REPLACED DISC IN VALVE-147112
V81900	98-255-036	HCU-4247, REPLACED DISC IN VALVE-147112
V81901	98-255-037	HCU-4655, REPLACED DISC IN VALVE-147112
V81902	98-255-038	HCU-5031, REPLACED DISC IN VALVE-147112
V81903	98-255-039	HCU-5043, REPLACED DISC IN VALVE-147112
V81904	98-255-040	HCU-5839, REPLACED DISC IN VALVE-147112
V82092	98-255-041	HCU-0639, REPLACED NITROGEN ACCUMULATOR
V98610	99-255-001	VP-CRB-113-2, REPLACED SMALL PIPE AND LEVEL SWITCH

SYSTEM NO. 259A, ASME CLASS MC

V71203	97-259-011	PV-4665; REPAIR REACTOR CAVITY SEAL PLATE COATINGS
H60490	98-259-001	X-200B, SUPPRESSION POOL "B" HATCH USING NEW GASKET
H80245	98-259-002	X003, CONTAINMENT HEAD NEW GASKET
H80219	98-259-004	X-1, EQUIPMENT HATCH NEW GASKET
H80229	98-259-005	X-200A, SUPPRESSION POOL "A" HATCH NEW GASKET
H80230	98-259-006	X-200B, SUPPRESSION POOL "B" HATCH NEW GASKET
H80228	99-259-001	X-006, CRD HATCH USING NEW GASKET

SYSTEM NO. 261B, ASME CLASS I

V82061	99-261-001	HV244F001, REPLACE BONNET & PLUG
V82062	99-261-002	HV244F004, REPAIRED DISC

SYSTEM NO. 261B, ASME CLASS III

V71378	98-261-001	244F022A, REPLACE STEM/DISC & BACKSEAT
V71378	98-261-002	244F023A, REPLACE STEM/DISC & BACKSEAT
V71379	98-261-003	244F007A, REPLACE STEM/DISC & BACKSEAT
V71379	98-261-004	244F007B, REPLACE STEM/DISC & BACKSEAT

SYSTEM NO. 262A, ASME CLASS I

H60356	97-162-001	PSV 241F013L, REPLACED INLET STUDS
H60356	97-162-002	PSV 241F013H, REPLACED INLET STUDS
H60356	97-162-003	PSV 241F013E, REPLACED STUDS, DISC INSERT & NOZZLE
H60356	97-162-004	PSV 241F013C, REPLACED STUDS, DISC INSERT & NOZZLE
H60356	97-162-005	PSV 241F013B, REPLACED STUDS, DISC INSERT & NOZZLE
H60356	97-162-006	PSV 241F013G, REPLACED 7 INLET STUDS
H60356	97-162-007	PSV 241F013D, REPLACED 8 INLET STUDS
H60356	97-162-008	PSV 241F013M, REPLACED STUDS,SPINDLE AND BUTTON
H80197	98-262-001	REPLACED CRD 02-43 AND 8 HOUSING BOLTS
H80135	98-262-002	REPLACED CRD 06-27 AND 8 HOUSING BOLTS
H80137	98-262-003	REPLACED CRD 06-39 AND 8 HOUSING BOLTS
H80146	98-262-004	REPLACED CRD 14-31 AND 8 HOUSING BOLTS
H80166	98-262-005	REPLACED CRD 14-43 AND 8 HOUSING BOLTS
H80139	98-262-006	REPLACED CRD 18-51 AND 8 HOUSING BOLTS
H80236	98-262-007	REPLACED CRD 22-47 AND 8 HOUSING BOLTS
H80160	98-262-008	REPLACED CRD 26-43 AND 8 HOUSING BOLTS
H80175	98-262-009	REPLACED CRD 26-47 AND 8 HOUSING BOLTS
H80151	98-262-010	REPLACED CRD 30-43 AND 8 HOUSING BOLTS
H80149	98-262-011	REPLACED CRD 34-23 AND 8 HOUSING BOLTS
H80140	98-262-012	REPLACED CRD 34-31 AND 8 HOUSING BOLTS
H80141	98-262-013	REPLACED CRD 34-51 AND 8 HOUSING BOLTS
H80142	98-262-014	REPLACED CRD 38-15 AND 8 HOUSING BOLTS
V90693	98-262-015	REPLACED CRD 38-31 AND 8 HOUSING BOLTS
H80164	98-262-016	REPLACED CRD 38-43 AND 8 HOUSING BOLTS
H80147	98-262-017	REPLACED CRD 42-11 AND 8 HOUSING BOLTS
H80144	98-262-018	REPLACED CRD 42-19 AND 8 HOUSING BOLTS
H80145	98-262-019	REPLACED CRD 42-23 AND 8 HOUSING BOLTS
H80161	98-262-020	REPLACED CRD 42-47 AND 8 HOUSING BOLTS
H80150	98-262-021	REPLACED CRD 46-55 AND 8 HOUSING BOLTS
H80162	98-262-022	REPLACED CRD 50-31 AND 8 HOUSING BOLTS
H80198	98-262-023	REPLACED CRD 50-43 AND 8 HOUSING BOLTS
H80196	98-262-024	REPLACED CRD 58-39 AND 8 HOUSING BOLTS
H80265	98-262-025	DBA-212-1, FLG M-1 REPLACED STUDS AND NUTS
H80265	98-262-026	DCA-211-3, FLG M-1 REPLACED STUDS AND NUTS
H80265	98-262-027	DCA-211-3, FLG M-2 REPLACED STUDS AND NUTS
H80265	98-262-028	DBA-212-2, IT # 8 & 9, REPLACED STUDS AND NUTS
H80265	98-262-029	DBA-212-2, IT # 10 & 11, REPLACED STUDS AND NUTS

H80384	99-162-002	PSV 241F013B, REPLACED DISC INSERT & REPAIRED NOZZLE
H80640	98-262-031	PSV 241F013B, REPLACED RELIEF VALVE AND BOLTS
H80641	98-262-032	PSV 241F013F, REPLACED RELIEF VALVE
H80642	98-262-033	PSV 241F013H, REPLACED RELIEF VALVE
H80384	99-162-004	PSV 241F013K, REPAIRED RELIEF VLV NOZZLE
H80643	98-262-034	PSV 241F013K, REPLACED RELIEF VALVE
H80384	99-162-006	PSV 241F013L, REPLACED INLET STUD
H80644	98-262-035	PSV 241F013L, REPLACED RELIEF VALVE
H80645	98-262-036	PSV 241F013N, REPLACEDRELIEF VALVE
H80384	99-162-008	PSV 241F013R, INSTALLED HELICOIL & REPLACED STUDS
H80646	98-262-037	PSV 241F013R, REPLACED RELIEF VALVE & NUTS
H80384	99-162-009	PSV 241F013S, REPLACED STUDS, DISC INSERT & NOZZLE
H80647	98-262-038	PSV 241F013S, REPLACED RELIEF VALVE & NUTS
V63070	99-262-001	DCA-245-H2613, REPLACED SPRING CAN AND ROD
H80678	99-262-010	HV241F028D, REMOVED SEAL WELD
V90550	99-262-011	DBA-211-H6, ABR-2885, REPAIRED TRAVEL STOP
H80265	99-262-012	DCA-245-3, IT # 5 & 15, # 7 & 16 REPLACED STUDS AND NUTS
H80265	99-262-013	DBA-245-6, IT # 5 & 6, # 7 & 8 REPLACED STUDS AND NUTS
V90832	99-262-014	2S401, REPAIRED REACTOR VESSEL VENT NOZZLE
V90832	99-262-015	DBA-212-1 FLANGE M-1, REPAIRED FLANGE

SYSTEM NO. 264D, ASME CLASS II

V90663	99-264-003	243F013A, REPLACED VALVE
V90799	99-264-004	243F013A, REPLACED & REPLACED VALVE
V98675	99-264-007	243F013A, INSTALLED MODIFIED VALVE

SYSTEM NO. 278F, ASME CLASS II

V80625	98-278-001	SV-22661, REPLACE DISC ASSM AND WELD BODY TO BONNET

SYSTEM NO. 283A, ASME CLASS II.

V71585	97-283-052	2RV-PSL-2N015D, REPLACE STEM/DISC & BACKSEAT
V71586	97-283-053	1RV-PSL-2N015D, REPLACE STEM/DISC & BACKSEAT
V71584	97-283-055	1RV-PSL-2N015A, REPLACE STEM/DISC & BACKSEAT
V71587	97-283-056	2RV-PSL-2N015A, REPLACE STEM/DISC & BACKSEAT
V71507	97-283-057	SP-DBB-201-3 REPLACE VALVE, PIPE & ELBOWS.
V72467	98-283-001	1RV-LSL-20112C, REPLACE VALVE
V80561	98-283-002	2RV-PSL-2N015B, REPLACE STEM/DISC & BACKSEAT
V80717	98-283-003	1RV-PP-20101A, REPLACE STEM/DISC & BACKSEAT
V80719	98-283-004	3RV-LSL-20112D, REPLACE STEM/DISC & BACKSEAT
V80718	98-283-005	LSL20112C-VENT, REPLACE STEM/DISC
V81012	98-283-006	LSL-20112D-VNT, REPLACE STEM/DISC & BACKSEAT
V81028	98-283-007	2RV-LSHH-20112C, REPLACE STEM/DISC & BACKSEAT
V81340	98-283-008	SP-DBB-205-4-49, REPLACE STEM/DISC & BACKSEAT
V72481	98-283-011	1RV-PP-20101C, REPLACE STEM/DISC & BACKSEAT
V81406	98-283-012	2RV-LSHH-20108, REPLACE STEM/DISC & BACKSEAT
V72441	98-283-016	2RV-PP-20101C, REPLACE STEM/DISC & BACKSEAT
V72482	98-283-017	SP-DBB-204-3-34, REPLACE STEM/DISC & BACKSEAT
V73017	98-283-018	SP-DBB-203-2-66, REPLACE STEM/DISC & BACKSEAT
V80580	98-283-019	1RV-LSH-20112C, REPLACE STEM/DISC & BACKSEAT

V71567	98-283-020	1RV-LSHH-20108, REPLACE STEM/DISC & BACKSEAT
V71562	98-283-021	1RV-LSL-20112D, REPLACE STEM/DISC & BACKSEAT
V71566	98-283-022	2RV-LSH-20108, REPLACE STEM/DISC & BACKSEAT
V71579	98-283-023	SP-DBB-203-2-67, REPLACE STEM/DISC & BACKSEAT
V80714	98-283-024	3RV-LSHH-20112B, REPLACE STEM/DISC & BACKSEAT
V81356	98-283-025	1RV-LSHH-20112D, REPLACE STEM/DISC & BACKSEAT
V71563	99-283-001	1RV-LSL-20112A, REPLACE STEM/DISC & BACKSEAT
V90482	99-283-002	HV-20112C2, REPLACE STEM/DISC & BACKSEAT
V90486	99-283-003	SP-DBB-203-2-64, REPLACE STEM/DISC & BACKSEAT
V90574	99-283-004	4RV-LSL-20112B, REPLACE STEM/DISC & BACKSEAT
V90575	99-283-005	SP-DBB-201-3-17, REPLACE STEM/DISC & BACKSEAT
V90576	99-283-006	SP-DBB-202-3-65, REPLACE STEM/DISC & BACKSEAT
V90481	99-283-010	HV-20112D2, REPLACE VALVE BODY

SYSTEM NO. 283B, ASME CLASS III.

V90827	98-283-011	241F029A, REPLACE VALVE BALL

SYSTEM NO. 283E, ASME CLASS III.

H80387	98-283-009	SP-HCC-233-H5019, REPLACE BOLTING
H80387	98-283-010	SP-HCC-233-12, REPLACE BOLTING

SYSTEM NO. 283H, ASME CLASS II.

V86691	98-283-009	JD-23-3-1B, REPLACE METAL FLEX HOSE

SYSTEM NO. 293G, ASME CLASS II.

V71565	99-293-001	2RV-PDT-20101A, REPLACE STEM/DISC & BACKSEAT
V71564	99-293-002	2RV-PDT-20101B, REPLACE STEM/DISC & BACKSEAT
V90487	99-293-003	1RV-PDT-20101B, REPLACE STEM/DISC & BACKSEAT

4.0 REPAIR SUMMARY

Work in this category is comprised of Work Authorization of Seciton VIII Repairs and Replacements.

4.1 NATIONAL INSPECTION BOARD CODE SECTION VIII REPAIRS

W.A. NO.	522 FORM NO.	DISCRIPTION OF WORK
P63612	97-214-002	2E201B, HTX WELD REPAIR
P74475	98-233-002	2S146A, HTX WELD REPAIR
P81874	99-233-001	2S146B, HTX WELD REPAIR
P74564	98-234-001	2K206A, HTX WELD REPAIR
V90585	99-247-001	2E103A, HTX FLUSH PATCH REPAIR
V90601	99-247-002	2E103B, HTX FLUSH PATCH REPAIR
V98575	98-247-001	2E103C, HTX FLUSH PATCH REPAIR
P74205	98-248-001	2E118A, PERFORMED WELD REPAIR
P74205	98-248-007	2E118A, REPLACED BOLTING
P74205	98-248-010	2E118A, REPLACED INLET & OUTLET NOZZLE PIPE
P81613	98-248-015	2E118A, PERFORMED BASEMETAL REPAIR
P71992	97-248-001	2E118B, REPLACED COUPLING
P74301	98-248-004	2E118B, PERFORMED BASEMETAL REPAIR
P74301	98-248-005	2E118B, REPLACED INLET & OUTLET NOZZLE PIPE
P62147	96-248-003	2E118C, REPLACED COUPLING
P74205	98-248-002	2E118C, PERFORMED BASEMETAL REPAIR
P74205	98-248-008	2E118C, REPLACED BOLTING
P74205	98-248-011	2E118C, REPLACED INLET & OUTLET NOZZLE PIPE
P81613	98-248-016	2E118C, PERFORMED BASEMETAL REPAIR
P71992	97-248-002	2E118D, REPLACED COUPLINGS
P74301	98-248-013	2E118D, REPLACED BOLTING
P74205	98-248-003	2E118E, PERFORMED WELD REPAIR
P74205	98-248-009	2E118E, REPLACED BOLTING
P74205	98-248-012	2E118E, REPLACED INLET & OUTLET NOZZLE PIPE
P71992	97-248-003	2E118F, REPLACED COUPLINGS & WELD REPAIRED HTX
P74301	98-248-014	2E118F, REPLACED BOLTING MATERIAL
P82169	98-264-001	2E126A, REPLACED COUPLINGS & WELD REPAIRED HTX
P82758	98-264-002	2E126B, REPLACED COUPLINGS & WELD REPAIRED HTX

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 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) See Attached List (Repair Organizaton 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 Station Service Water System 211A, class 3.

5. (a) Applicable Construction Code * 19 * Edition, * 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) LARGE PIPE FLANGE BOLTING	BECHTEL	N/A	N/A	HRC-209-2	1982	REPLACED	YES
2) LARGE PIPE FLANGE BOLTING	PP&L	HT.NO 88724	N/A	HRC-209-2	1999	REPLACEMENT	NO
3) FUEL POOL COOLING HTX	AMERICAN STANDARD	5-20001-05-03	29224	2E202C	1976	REPAIR	YES
4) FUEL POOL CLG HTX (1) 3/4 PIPE NOZZLE	AMERICAN STANDARD	5-20001-05-03	29224	2E202C	1976	REPLACED	YES
5) FUEL POOL CLG HTX (1) 3/4 PIPE	AMERICAN STANDARD	PIPE HT # 698884	N/A	2E202C	1999	REPLACEMENT	NO
6) FUEL POOL CLG HTX (3) 1" PIPE NOZZLE	AMERICAN STANDARD	5-20001-05-03	29224	2E202C	1976	REPLACED	YES

7. Description of Work SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE PAGE 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 ORIGINAL CODE OF CONSTRUCTION : Heat exchanger 2E202C ASME Sec III 1971 ED thru
Applicable Manufacturer's Data Reports to be attached

WINTER 71 ADD, NO CODE CASES. Check Valve 209090 ASME Sec III 1971 thru Winter 72 Add and

Code Cases 1335-9, 1516-1, 1567 & 1622.

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 13 ,1999
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period FEB 7 1997 to APRIL 28 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7325 / IBNA PA2159
National Board, State, Province, and Endorsements

Date July 14 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: 6/18/99

Sheet 2 of 3

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

Unit: TWO

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: Station Service Water System 211A, class 3.

5. (a) Applicable Construction Code * 19 * Edition, * 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)
7) FUEL POOL CLG HTX (3) 1" PIPE NOZZLES	AMERICAN STANDARD	PIPE HT # 449314 FLANGE HT # AJGZ	N/A	2E202C	N/A	REPLACEMENT	NO
8) CHECK VALVE PIPE PLUG	PACIFIC VALVE	0292-6 VALVE	N/A	209090	1976	REPLACED	YES
9) CHECK VALVE PIPE PLUG	COLONIAL	HT # AEM PIPE PLUG	N/A	209090	N/A	REPLACEMENT	NO

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

1. Owner PP&L Inc. (Name) Date 06/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) SEE ATTACHED LIST (Repair Organizaton 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 Station Service Water System 211A, class 3.

5. (a) Applicable Construction Code * 19 * Edition, * 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	H60627	REPLACED 1 PIPE FLANGE STUD, ON 10"-HRC-209-2	NON VT-2 PER MI-PS-008
3-7	P70416	REPAIRED 8" NOZZLE AND CHANNEL WELDS. REPLACED (1) ¾" AND (3) 1" HEAT EXCHANGER NOZZLES	NON VT-2 PER MI-PS-008
8-9	P62798	VALVE 209090, PIPE PLUG	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) — Date 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 6

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

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. Indentification of System RHR SERVICE WATER, 216A, CLASS III.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	6025 (VALVE)	N/A	PT21203A-R1	1976	REPLACED	YES
2) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	90-1-2W1-846 (STEM/DISC)	N/A	PT21203A-R1	1992	REPLACEMENT	YES
3) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	6025 (VALVE)	N/A	PT21203A-R1	1976	REPLACED	YES
4) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	PT21203A-R1	1997	REPLACEMENT	NO
5) 1B RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1154 (CASE)	N/A	2P506B	1978	REPAIRED	YES
6) 2B RHR SW PMP (LOWER CASING STUDS/NUTS)	BYRON JACKSON	731-S-1154 (CASE)	N/A	2P506B	1978	REPLACED	YES
7) 2B RHR SW PMP (LOWER CASING STUDS/NUTS)	BYRON JACKSON	N/A	N/A	2P506B	1978	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure * Psi Test Temp. * °F

See Page 6

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 DATA REPORTS ATTACHED; SEE SHEET 6 OF 6 FOR COMPONENT CODES OF
Applicable Manufacturer's Data Reports to be attached

CONSTRUCTION IN DISCRIPTION OF WORK.

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 13, 1999
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 June 25 1997 to APRIL 2 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date July 14 1999

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 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 6

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) SEE ATTACHED LIST (Repair Organizaton 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 RHR SERVICE WATER, 216A, CLASS III.

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) 2B RHR SW PMP (UPPER CASING STUDS/NUTS)	BYRON JACKSON	731-S-1154 (CASE)	N/A	2P506B	1978	REPLACED	YES
9) 2B RHR SW PMP (UPPER CASING STUDS/NUTS)	BYRON JACKSON	N/A	N/A	2P506B	1978	REPLACEMENT	NO
10) 2B RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1152-2 (COLUMN)	N/A	2P506B	1978	REPLACED	YES
11) 2B RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1154-2 (COLUMN)	N/A	2P506B	1978	REPLACEMENT	YES
12) 2B RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S-1152-3 (COLUMN)	N/A	2P506B	1978	REPLACED	YES
13) 2B RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S- 1154-3 (COLUMN)	N/A	2P506B	1978	REPLACEMENT	YES
14) 2B RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1152-4 (COLUMN)	N/A	2P506B	1978	REPLACED	YES
15) 2B RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1154-4 (COLUMN)	N/A	2P506B	1978	REPLACEMENT	YES
16) 2B RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1152-5 (CASE)	N/A	2P506B	1978	REPLACED	YES
17) 2B RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1153-5 (CASE)	N/A	2P506B	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 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 6

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

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. Indentification of System RHR SERVICE WATER, 216A, CLASS III.

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
18) 2B RHR SW PMP SERIES CASE	BYRON JACKSON	731-S-1152-6 (CASE)	N/A	2P506B	1978	REPLACED	YES
19) 2B RHR SW PMP SERIES CASE	BYRON JACKSON	861W4336 (CASE)	N/A	2P506B	1987	REPLACEMENT	YES
20) 2B RHR SW PMP SUCTION BELL	BYRON JACKSON	731-S-1152-7 (SUCT BELL)	N/A	2P506B	1978	REPLACED	YES
21) 2B RHR SW PMP SUCTION BELL	BYRON JACKSON	731-S-1153-7 (SUCT BELL)	N/A	2P506B	1978	REPLACEMENT	YES
22) 2B RHR SW PMP (COLUMN STUDS/NUTS)	BYRON JACKSON	731-S-1152 (PUMP)	N/A	2P506B	1978	REPLACED	YES
23) 2B RHR SW PMP (COLUMN STUDS/NUTS)	BYRON JACKSON	N/A	N/A	2P506B	1978	REPLACEMENT	NO
24) 2A RHR SW PMP SERIES CASE (SHOP REBUILD)	BYRON JACKSON	731-S-1153-6 SERIES CASE	N/A	2P506A	1978	REPLACED	YES
25) 2A RHR SW PMP SERIES CASE (SHOP REBUILD)	BYRON JACKSON	731-S-1152-6 SERIES CASE	N/A	2P506A	1978	REPLACEMENT	YES
26) 2A RHR SW PMP (NUTS/STUDS) (SHOP REBUILD)	BYRON JACKSON	731-S-1152 (PUMP ELEM)	N/A	2P506A	1978	REPLACED	YES
27) 2A RHR SW PMP (NUTS/STUDS) (SHOP REBUILD)	BYRON JACKSON	N/A	N/A	2P506A	1978	REPLACEMENT	NO

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

1. Owner PP&L Inc. (Name) — Date 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 6

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

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. Indentification of System RHR SERVICE WATER, 216A, CLASS III.

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
28) 2A RHR SW PMP UPPER SERIES COLUMN	BYRON JACKSON	731-S-1153-1 (COLUMN)	N/A	2P506A	1978	REPLACED	YES
29) 2A RHR SW PMP UPPER SERIES COLUMN	BYRON JACKSON	731-S-1154-1 (COLUMN)	N/A	2P506A	1978	REPLACEMENT	YES
30) 2A RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1153-2 (COLUMN)	N/A	2P506A	1978	REPLACED	YES
31) 2A RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1152-2 (COLUMN)	N/A	2P506A	1978	REPLACEMENT	YES
32) 2A RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S-1153-3 (COLUMN)	N/A	2P506A	1978	REPLACED	YES
33) 2A RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S- 1152-3 (COLUMN)	N/A	2P506A	1978	REPLACEMENT	YES
34) 2A RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1153-4 (COLUMN)	N/A	2P506A	1978	REPLACED	YES
35) 2A RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1152-4 (COLUMN)	N/A	2P506A	1978	REPLACEMENT	YES
36) 2A RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1154-5 (CASE)	N/A	2P506A	1978	REPLACED	YES
37) 2A RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1152-5 (CASE)	N/A	2P506A	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 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 5 of 6

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System RHR SERVICE WATER, 216A, CLASS III.

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
38) 2A RHR SW PMP SERIES CASE	BYRON JACKSON	731-S-1154-6 (CASE)	N/A	2P506A	1978	REPLACED	YES
39) 2A RHR SW PMP SERIES CASE	BYRON JACKSON	731-S-1152-6 (CASE)	N/A	2P506A	1978	REPLACEMENT	YES
40) 2A RHR SW PMP SUCTION BELL	BYRON JACKSON	731-S-1154-7 (SUCT BELL)	N/A	2P506A	1978	REPLACED	YES
41) 2A RHR SW PMP SUCTION BELL	BYRON JACKSON	731-S-1152-7 (SUCT BELL)	N/A	2P506A	1978	REPLACEMENT	YES
42) 2A RHR SW PMP (COLUMN STUDS AND NUTS)	BYRON JACKSON	731-S-1155 (PUMP)	N/A	2P506A	1978	REPLACED	YES
43) 2A RHR SW PMP (COLUMN STUDS AND NUTS)	BYRON JACKSON	N/A	N/A	2P506A	1978	REPLACEMENT	NO
44) SWING CHECK (LEAK OFF PLUG)	ANCHOR DARLING	E5854-105-1	N/A	212003	1976	REPLACED	YES
45) SWING CHECK (LEAK OFF PLUG)	ANCHOR DARLING	N/A	N/A	212003	1976	REPLACEMENT	NO
46) PIPE SUPPORT (SWAY STRUT ROD EYE ENDS)	BECHTEL	N/A	N/A	HRC-214-H1	1983	REPLACED	NO
47) PIPE SUPPORT (SWAY STRUT ROD EYE ENDS)	PP&L	N/A	N/A	HRC-214-H1	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) — Date 06/22/99

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

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

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. Indentification of System RHR SERVICE WATER, 216A, CLASS III

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W'72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	CODE REPAIR FORM NUMBER	WORK AUTHORIZATION	DESCRIPTION OF WORK/ CODE OF CONSTRUCTION	DESCRIPTION OF TESTS
1-4	97-216-004	V70102	PT21203A-R1, REPLACED STEM/DISC ASSEMBLY AND BACKSEAT BUSHING / VLV ORIG ASME III 1974 ED W '74 ADD.; NEW PARTS, ASME III 1986 ED NO ADD	NON VT-2 PER MI-PS-008
5	95-116-004	S15326	2P506B REPAIRED TOP CASE INTERNAL TURNING VANES DURING SHOP REBUILD ACTIVITIES/ ASME III 1971 ED W '72 ADD.	N/A; SHOP WORK INSTALLATION IN 2P506B PER WA # V81324
6-7	95-116-005	S15326	2P506B, REPLACED NUTS AND STUDS END BELL TO SERIES (LOWER) CASE WITH NEW / ASME III 1971 ED. W'72 ADD.	N/A; SHOP WORK INSTALLATION IN 2P506B PER WA # V81324
8-9	95-116-006	S15326	2P506B, REPLACED NUTS AND STUDS END BELL TO TOP CASE WITH NEW / ASME III 1971 ED. W'72 ADD	N/A; SHOP WORK INSTALLATION IN 2P506B PER WA # V81324
10-23	98-216-001	V81324	2P506B, REPLACED COLUMNS AND COLUMN STUDS AND NUTS WITH SHOP REFURBISHED COMPONENTS / ASME III 1971 ED. W'72 ADD	VT-2 PER SE-216-301 80 PSI AT 79° F
23-27	98-216-003	V81383	2P506A, REPLACED SERIES CASE AND NUTS & STUDS DURING SHOP REFURBISHMENT ACTIVITES/ ORIG PMP ASME III 1971 ED. W '72 ADD. ; NEW SERIES CASE ASME III 1971 ED. W '72 ADD.	N/A; SHOP WORK INSTALLATION IN 1P506A PER WA # V81654
28-43	98-216-002	V81654	2P506A, REPLACED COLUMNS AND COLUMN STUDS AND NUTS WITH SHOP REFURBISHED COMPONENTS / ASME III 1971 ED. W'72 ADD	VT-2 PER SE-216-301 80 PSI AT 70° F
44-45	98-216-004	P80151	212003, REPLACED VALVE PACKING LEAK OFF PLUG WITH NEW / ORIGINAL ASME III 1971 ED. W '72 ADD CC 1516-1 & 1534.	NON VT-2 PER MI-PS-008
46-47	99-216-001	V90674	HRC-214-H1, REPLACED PIPE SUPPORT SWAY STRUT ROD ENDS WITH NEW.	VT-3 PERFORMED PER NVT-3

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

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

Not To Exceed One Day's Production

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

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

3. Location of installation Stock
(name and address)

4. Type 969155-06 (drawing no.) | AMS5385E (disc) (mat'l. spec. no.) | 52,000 PSI Min. (tensile strength) | N/A (CRN) | 1992 (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 responsibl for reconciling this construction data with the design specification for the facility using the parts.

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

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

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

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

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.

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 & Disc Assemblies, 1" conforms to the rules of construction of the ASME Code, Section III.

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

Date 21 DEC 92 Name Yarway Corporation (NPT Certificate Holder) Signed (authorized representative) F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

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

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

* Factory Mutual System

Date 12-21-92 Signed (Authorized Inspector) Commissions Pa. 2056 NBBIS (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PAGE 7 OF 18

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 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) V90914, Code Repair Form 99-225-001 (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 Primary Containment Instrument Gas System 225A,.Class III

5. (a) Applicable Construction Code * 19 * Edition, * 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	VALCOR	S/N # 3	N/A	PCV-22648	1992	REPLACED	YES
2) VALVE	VALCOR	S/N # 4	N/A	PCV-22648	1992	REPLACEMENT	YES

7. Description of Work VALVE REPLACEMENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NON VT-2 PER MI-PS-008.
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks ORIGINAL REPLACEMENT VALVE CODE OF CONST ASME III 1986 ED. NO ADD.
Applicable Manufacturer's Data Reports to be attached

VALVE SERIAL NUMBER 4 ORIGINALLY INSTALLED IN PCV 22648 POSITION, DURING 2R6.

REMOVED FROM INSTALLED POSITION AND TESTED AS ACCEPTABLE FOR USE PER

W/A # C63554 WITH NO CODE WORK REQUIRED DURING REFURBISHMENT.

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENTS (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 13, 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, 1999 to APRIL 17, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date JULY 14 19 99

1. Manufactured and certified by ACCO Engineered Products, Lawrence Road, Spring Grove, PA 17362
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light
(name and address of Purchaser)

3. Location of installation Susquehanna Steam Electric Station, Berwick, Pa.
(name and address)

4. Model No., Series No., or Type 793000001 Drawing 793000001 Rev. D CRN -

5. ASME Code, Section III, Division 1 1986 - 3 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve Valve Nominal inlet size 1" SCHD 160 (in.) Outlet size 1" SCHD 40 (in.)

7. Material: Body SA240-316 Bonnet N/A Disk N/A 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.
1 thru 6	N/A	U378NU (1)	N/A	N/A

(1) 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 [illegible]

8. Design conditions 1403 psi 139 °F or valve pressure class (1)
(pressure) (temperature)

9. Cold working pressure 3600 psi at 100°F

10. Hydrostatic test 5425 psi Disk differential test pressure 4150 psi

11. Remarks: Body P/N V52010-06-11, Housing, Spring V52091-06-7, SA479-316 L/N U445NU; V52047-6-11, Retainer, Seat SA479-316, L/N Q699NU

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State Penn Reg. no. 019525-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. N1076 Expires 5/6/93

Date 12/16/92 Name Valcor Engineering Corp. (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 New Jersey and employed by Factory Mutual * of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 12/16/92, 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. *Allendale Ins. Co.

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

Date 12/16/92 Signed [signature] (Authorized Inspector) Commissions NJ 820 (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) Date 7/19/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 4

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 234D, CLASS III.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 (* 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) FLEX HOSE (LOWER COIL) (LOWER HOSE)	ANAMET	NOT KNOWN	N/A	2E231A	1990	REPLACED	NO
2) FLEX HOSE (LOWER COIL) (LOWER HOSE)	ANAMET	P/N# BWL21-1	N/A	2E231A	1995	REPLACEMENT	NO
3) FLEX HOSE (UPPER COIL) (UPPER HOSE)	ANACONDA	NOT KNOWN	N/A	2E231A	1990	REPLACED	NO
4) FLEX HOSE (UPPER COIL) (UPPER HOSE)	ANAMET	S/N # 002	N/A	2E231A	1996	REPLACEMENT	NO
5) FLEX HOSE (LOWER COIL) (LOWER HOSE)	ANACONDA	NOT KNOWN	N/A	2E231B	1990	REPLACED	NO
6) FLEX HOSE (LOWER COIL) (LOWER HOSE)	ANAMET	091495517500 -01-004	N/A	2E231B	1996	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LISTING

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ SEE ATTACHED LIST.
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1.; ORIGINAL CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

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

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT AND 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 7/20 , 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 JUNE 8, 1995 to APRIL 17, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date July 20 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 PP&L Inc. (Name) — Date 7/19/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 4

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

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. Indentification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 234D, CLASS III

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 (* 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)
7) FLEX HOSE (LOWER COIL) (UPPER HOSE)	ANAMET	P/N# BWL21-1	N/A	2E231A	1995	REPL ACED	NO
8) FLEX HOSE (LOWER COIL) (UPPER HOSE)	ANAMET	072795515289 -01-001	N/A	2E231A	1995	REPLACEMENT	NO
9) FLEX HOSE (UPPER COIL) (LOWER HOSE)	ANAMET	NOT KNOWN	N/A	2E231B	1990	REPLACED	NO
10) FLEX HOSE (UPPER COIL) (LOWER HOSE)	ANAMET	061496520647 -01-008	N/A	2E231B	1996	REPLACEMENT	NO
11) FLEX HOSE (UPPER COIL) (LOWER HOSE)	ANAMET	NOT KNOWN	N/A	2E231D	1990	REPLACED	NO
12) FLEX HOSE (UPPER COIL) (LOWER HOSE)	ANAMET	061496520647 -01-006	N/A	2E231D	1996	REPLACEMENT	NO
13) FLEX HOSE (UPPER COIL) (LOWER HOSE)	ANAMET	NOT KNOWN	N/A	2E231B	1990	REPLACED	NO
14) FLEX HOSE (UPPER COIL) (LOWER HOSE)	ANAMET	061496520647 -01-007	N/A	2E231B	1996	REPLACEMENT	NO
15) HEAT EXCHANGER (TOP COIL)	AEROFIN	900644	N/A	2E231B	1990	REPAIRED	YES
16) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900645	N/A	2E231B	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) — Date 7/19/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 4

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

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. Indentification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 234D, CLASS III

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 (* 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)
17) HEAT EXCHANGER (TOP COIL)	AEROFIN	900646	N/A	2E231D	1990	REPAIRED	YES
18) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900647	N/A	2E231D	1990	REPAIRED	YES
19) FLEX HOSE (UPPER COIL) (UPPER HOSE)	ANAMET	061496520647 -01-008	N/A	2E231B	1996	REPLACED	NO
20) FLEX HOSE (UPPER COIL) (UPPER HOSE)	ANAMET	011498C525665 -004	N/A	2E231B	1996	REPLACEMENT	NO
21) HEAT EXCHANGER (TOP COIL)	AEROFIN	900642	N/A	2E231C	1990	REPAIRED	YES
22) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900643	N/A	2E231C	1990	REPAIRED	YES
23) HEAT EXCHANGER (TOP COIL)	AEROFIN	900640	N/A	2E231A	1990	REPAIRED	YES
24) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900641	N/A	2E231A	1990	REPAIRED	YES
25) HEAT EXCHANGER (NUT QTY 1)	AEROFIN	900641 (BOT COIL)	N/A	2E231A	1990	REPLACED	YES
26) HEAT EXCHANGER (NUT QTY 1)	AEROFIN	N/A	N/A	2E231A	1997	REPLACEMENT	NO

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

1. Owner PP&L Inc. (Name) — Date 07/19/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 4

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

PO Box 467, Berwick, PA 18603 (Address) — SEE ATTACHED LIST (Repair Organizabon 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 CORE SPRAY PUMP ROOM COOLING SYSTEM 234D, CLASS III

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 (* SEE SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V53209	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 50°F/press.: 85 psig
3-4	V53897	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 50°F/press.: 85 psig
5-6	V53896	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 58°F/press.: 90 psig
7-8	V63056	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 71°F/press.: 136psig
9-10	V63809	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 76°F/press.:113psig
11-12	V63810	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 76°F/press.:113psig
13-14	V73423	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-254-301 temp: 36°F/press.: 92 psig
15-16	P80212	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 Temp: 75°F/press.:124 psig
17-18	P81045	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 Temp: 75°F/press.:124 psig
19-20	V80222	REPLACED FLEX HOSE WITH NEW HOSE.	VT-2 PER SE-254-301 Temp: 61°F/press.:115 psig
21-22	P83124	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 Temp: 76°F/press.:123 psig
23-26	P83511	REPLACED NUT AND REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 Temp: 76°F/press.:123 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 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — WA # P64810, CODE FORM 97-234-004 (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 HPCI PUMP ROOM COOLING SYSTEM 234E, CLASS III.

5. (a) Applicable Construction Code * 19 * Edition, * 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) HEAT EXCHANGER (NUT QTY 1)	AEROFIN	900615	N/A	2E229B	1990	REPLACED	YES
2) HEAT EXCHANGER (NUT QTY 1)	ALLIED	HT # 711924 (NUT)	N/A	2E229B	1997	REPLACEMENT	NO

7. Description of Work REPLACED NUT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ TEST NOT APPLICABLE

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks ORIGINAL CODE OF CONSTRUCTION FOR AEROFIN HEAT EXCHANGER ASME VIII DIV 1

Applicable Manufacturer's Data Reports to be attached

1986 ED. NO ADD. CODE CASE 1997-2.

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (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 13 ,19 99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period Aug. 21 1998 to Aug 22 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]

Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 7 BNA PA 2159

National Board, State, Province, and Endorsements

Date July 14 1999

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 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — WA # V63234, CODE FORM 96-234-002 (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 RCIC PUMP ROOM COOLING SYSTEM 234F, CLASS III.

5. (a) Applicable Construction Code * 19 * Edition, * 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) LOWER FLEX HOSE (LOWER)	ANAMET	NOT KNOWN	N/A	2E228B	1990	REPLACED	NO
2) LOWER FLEX HOSE (LOWER)	ANAMET	061496520647 -01-002	N/A	2E228B	1996	REPLACEMENT	NO

7. Description of Work REPLACED UPPER FLEX HOSE ON HEAT EXCHANGER

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ VT-2 PER SE-254-301
Other ☐ Pressure 114 psi Test Temp. 77 °F

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

FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1.

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 13, 1999

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period MAY 10 1996 to AUG. 8 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]

Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 IBNA PA 2459

National Board, State, Province, and Endorsements

Date JULY 14 1999

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 7/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 RHR PUMP ROOM COOLING SYSTEM 234G, CLASS III.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 ,CC N416-1. (* 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). UPPER FLEX HOSE	ANAMET	UNKNOWN	N/A	2E230A	1990	REPLACED	NO
2) UPPER FLEX HOSE	ANAMET	061496520647 -02-001	N/A	2E230A	1996	REPLACEMENT	NO
3) LOWER FLEX HOSE (LOWER COIL)	ANAMET	UNKNOWN	N/A	2E230D	1990	REPLACED	NO
4) LOWER FLEX HOSE (LOWER COIL)	AEROFIN	061496518270 -01-001	N/A	2E230D	1996	REPLACEMENT	NO
5) HEAT EXCHANGER (NUTS QTY 4)	AEROFIN	900625	N/A	2E230A	1990	REPLACED	YES
6) HEAT EXCHANGER (NUTS QTY 4)	AEROFIN	N/A	N/A	2E230A	1997	REPLACEMENT	NO
7) HEAT EXCHANGER (TOP COIL)	AEROFIN	900628	N/A	2E230B	1990	REPAIRED	YES

7. Description of Work SEE ATTACHED LISTING

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

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

FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1., ORIGINAL CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

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

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT AND 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 7/20 , 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 JUNE 28 1996 to April 17, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 18 NA PA 2159
National Board, State, Province, and Endorsements

Date July 20 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 PP&L Inc. (Name) Date 7/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 RHR PUMP ROOM COOLING SYSTEM 234G, CLASS III

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, CODE CASE N416-1.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900629	N/A	2E230B	1990	REPAIRED	YES
9) HEAT EXCHANGER (TOP COIL)	AEROFIN	900630	N/A	2E230D	1990	REPAIRED	YES
10) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900631	N/A	2E230D	1990	REPAIRED	YES
11) HEAT EXCHANGER (TOP COIL)	AEROFIN	900624	N/A	2E230A	1990	REPAIRED	YES
12) HEAT EXCHANGER (BOTTOM COIL)	AEROFIN	900625	N/A	2E230A	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) — Date 07/18/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 3

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

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 RHR PUMP ROOM COOLING SYSTEM 234G, CLASS III

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

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V63237	REPLACE UPPER COOLER FLEX HOSE	VT-2 PER SE-254-301 Temp 71°F/press.: 120 psig
3-4	V63132	REPLACE LOWER COIL LOWER FLEX HOSE	VT-2 PER SE-254-301 Temp 65°F/press.:117 psig
5-6	V64595	REPLACE HEAT EXCHANGER NUTS WITH CORRECT MATERIAL	NON VT-2 PER MI-PS-008
7-8	P81669	REPAIR HEADER LIGAMENTS AND GASKET SEATING SURFACE BY WELDING, UPPER AND LOWER HEAT EXCHANGERS	VT-2 PER SE-254-301 Temp: 65°F/press.: 124 psig
9-10	P83839	REPAIR HEADER LIGAMENTS AND GASKET SEATING SURFACE BY WELDING, UPPER AND LOWER HEAT EXCHANGERS	VT-2 PER SE-254-301 Temp: 45°F/press.: 120 psig
11-12	P83509	REPAIR HEADER LIGAMENTS AND GASKET SEATING SURFACE BY WELDING, UPPER AND LOWER HEAT EXCHANGERS	VT-2 PER SE-254-301 Temp: 36 °F/press.: 125 psig

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

1. Owner PP&L Inc. (Name) — Date 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

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 EMERGENCY LC & SWITCHGEAR ROOMS SUPPLY, 234G, CLASS III.

5. (a) Applicable Construction Code * 19 * Edition, * 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	VALVE S/N 6302	N/A	RV-PI-21190A	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	90-1-2W1-B33	N/A	RV-PI-21190A	1992	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	VALVE S/N 6302	N/A	RV-PI-21190A	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	RV-PI-21190A	1997	REPLACEMENT	NO
5) STEM/DISC ASSEMBLY	YARWAY	VALVE S/N 6089	N/A	RV-PP-21192A	1976	REPLACED	YES
6) STEM/DISC ASSEMBLY	YARWAY	90-1-2W1-B47	N/A	RV-PP-21192A	1992	REPLACEMENT	YES
7) BACKSEAT BUSHING	YARWAY	VALVE S/N 6089	N/A	RV-PP-21192A	1976	REPLACED	YES

7. Description of Work SEE ATTACHED LISTING

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. ORIG YARWAY VLV CODE ASME SEC III, 74 ED/ W 74
Applicable Manufacturer's Data Reports to be attached

ADD. REPLACEMENT PARTS ASME SEC III, 1986 ED NO ADD. VOGT VLV ORIGINAL AND DONER

VALVE CODE ASME SEC III, 1980 / S 81 ADD. CLASS 2.

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 13, 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 July 11 1997 to APRIL 13 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 IBNA PA#159
National Board, State, Province, and Endorsements

Date July 14 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 PP&L Inc. (Name) Date 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 EMERGENCY LC & SWITCHGEAR ROOMS SUPPLY, 234G, CLASS III.

5. (a) Applicable Construction Code * 19 * Edition, * 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	RV-PP-21192A	1997	REPLACEMENT	NO
9) STEM/DISC ASSEMBLY	YARWAY	VALVE S/N 5872	N/A	272019	1976	REPLACED	YES
10) STEM/DISC ASSEMBLY	YARWAY	AV94-B16	N/A	272019	1998	REPLACEMENT	YES
11) BACKSEAT BUSHING	YARWAY	VALVE S/N 5872	N/A	272019	1976	REPLACED	YES
12) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	272019	1997	REPLACMENT	NO
13) GLOBE VALVE (BONNET, DISC & BOLTING)	HENRY VOGT	VALVE S/N # 14-215095	N/A	211136	1984	REPLACED	YES
14) GLOBE VALVE (BONNET, DISC & BOLTING)	HENRY VOGT	PARTS REMOVED FROM VALVE S/N # 37-215095	N/A	211136	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) Date 06/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 EMERGENCY LC & SWITCHGEAR ROOMS SUPPLY, 234G, CLASS III.

5. (a) Applicable Construction Code * 19 * Edition, * 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	V70593	REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
5-8	V70594	REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
9-12	V70526	REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
13-14	V90834	REPLACE BONNET, DISC AND BOLTING WITH PARTS REMOVED FROM IDENTICAL VALVE IN WAREHOUSE.	VT-2 PER SE-254-301 Temp 94 °F/ Press 95 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 Yarway Corporation, 480 Norristown Rd., Blue Bell, PA 19422 (name and address of NPT Certificate Holder)

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

3. Location of installation Stock (name and address)

4. Type 969155-06 (drawing no.) | AMS5385E (disc) (mat'l. spec. no.) | 52,000 PSI Min. (tensile strength) | N/A (CRN) | 1992 (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 responsibl for reconciling this construction data with the design specification for the facility using the parts.

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

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

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

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

10. Design pressure * psi. Temp. * °F. Hydro. test pressure N/A (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 × 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.

4 OF 6 SUB

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" conforms to the rules of construction of the ASME Code, Section III.

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

Date 21 DEC 92 Name Yarway Corporation (NPT Certificate Holder) Signed [signature] (authorized representative) F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

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

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

* Factory Mutual System

Date 12-21-92 Signed [signature] (Authorized Inspector) Commissions PA 2056 N15B15 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WIP ORDER 5008907 SALES ORDER NO 2003858

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
(1)	AV94-B1	—
(2)	AV94-B2 ✓	—
(3)	AV94-B3 ✓	—
(4)	AV94-B4 ✓	—
(5)	AV94-B5 ✓	—
(6)	AV94-B6	—
(7)	AV94-B7 ✓	—
(8)	AV94-B8 ✓	—
(9)	AV94-B9 ✓	—
(10)	AV94-B10	—
(11)	AV94-B11	—
(12)	AV94-B12	—
(13)	AV94-B13	—
(14)	AV94-B14	—
(15)	AV94-B15	—
(16)	AV94-B16	—
(17)	AV94-B17	—
(18)	AV94-B18	—
(19)	AV94-B19	—
(20)	AV94-B20 ✓	—
(21)	AV94-B21 ✓	—
(22)	AV94-B22 ✓	—
(23)	AV94-B23 ✓	—
(24)	AV94-B24 ✓	—
(25)	AV94-B25 ✓	—

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	AV94-B26 ✓	—
(27)	AV94-B27 ✓	—
(28)	AV94-B28 ✓	—
(29)	AV94-B29 ✓	—
(30)	AV94-B30 ✓	—
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
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(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

FTI OP SUP PBG

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.)

FTI
OP SUP
PBG

1. Manufactured by: (Name and Address of Certificate Holder)
Pennsylvania Power & Light, Allentown, PA
2. Manufactured for: (Name and Address of Purchaser)
Susquehanna Steam Electric Station, Berwick, PA
3. Location of Installation (Name and Address)
4. Pump or Valve: Globe 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)	Globe	33-215095	---	B-52690	2	---	1985
(2)	Globe	34-215095	---	B-52690	2	---	1985
(3)	Globe	36-215095	---	B-52690	2	---	1985
(4)	Globe	37-215095	---	B-52690	2	---	1985
(5)	Globe	39-215095	---	B-52690	2	---	1985
(6)	Globe	40-215095	---	B-52690	2	---	1985
(7)							
(8)							
(9)							
(10)							

5. [illegible]
6. Design Conditions: [illegible] psi (Pressure) [illegible] °F (Temperature) — Valve Pressure Class 1500 (1)
7. Cold Working Pressure 3705 psi at 100°F
8. Pressure Retaining Pieces OK

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body			
R4648C	SA 105	Vogt	
Bonnet			
R3856A	SA 105	Vogt	

(1) For manually operated valves only.

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

8504210095

(d) Other Parts:			
Disc			
IDH	SA 479 T.410 (Chemistry Only)	Vogt	

9. Hydrostatic test 5575 psi. Disk Differential test pressure 4080 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1 Edition 1980
Addenda Summer '81 (Date), Code Case No. —— Date January 29, 1985
Signed Henry Vogt Machine Co. (N Certificate Holder) by [signature]
Our ASME Certificate of Authorization No. 947 to use the N (N) symbol expires 1/6/87 (Date)

CERTIFICATION OF DESIGN

Design information on file at Henry Vogt Machine Co.
Stress analysis report (Class 1 only) on file at
Design specifications certified by (1) John R. Schmiedel
PE State Pennsylvania Reg. No. 19270E
Stress analysis certified by (1)
PE State Reg. No.
(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on January 28, 1985, 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 January 29, 1985
[signature] (Inspector) Commissions Pennsylvania NB 2879 (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) — Date 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — W/A V81956; ASME CODE FORM 98-235-001 (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 FUEL POOL COOLING,235B, CLASS III.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, 1622* Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* 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) CHECK VALVE (DISC)	MCC PACIFIC VALVE	VALVE S/N 0112-6	N/A	253009A	1976	REPLACED	YES
2) CHECK VALVE (DISC)	MCC PACIFIC VALVE	DISC S/N M732120	N/A	253009A	1995	REPLACEMENT	YES
3) CHECK VALVE (STUFFING BOX PIPE PLUG)	MCC PACIFIC VALVE	VALVE S/N 0112-6	N/A	253009A	1976	REPLACED	YES
4) CHECK VALVE (STUFFING BOX PIPE PLUG)	COLONIAL MACHINE	PIPE PLUG HT # AEM	N/A	253009A	1989	REPLACEMENT	NO

7. Description of Work REPLACE VALVE DISC AND PIPE PLUG

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NON VT-2 PER MI-PS-008.
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT ATTACHED. REPLACEMENT DISC CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

ASME Sec III 1971 Edition thru Winter 72 Addenda NO Code Cases.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 17, 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 SEPT. 22 1998 to SEPT. 23 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

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

Date July 14 19 99

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 *Control Components Inc. 22591 Avenida Empresa, Rancho Santa Margarita, CA 92688*
(name and address of Certificate Holder)
2. Manufactured for *PENNSYLVANIA POWER & LIGHT CO., ALLENTOWN, PA.*
(name and address of purchaser)
3. Location of installation *SUSQUEHANNA STEAM ELECTRIC STATION, BERWICK, PA.*
(name and address)
4. Type *97034* (drawing no.) *SA516-GR. 70* (mat'l spec. no.) *70.0 KSI* (tensile strength) *N/A* (CRN) *1995* (year built)
5. ASME Code, Section III, Division 1: *1971* (edition) *WINTER 1972* (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 *FOR A 6" PV CHECK VALVE*
CCI WORK ORDER #802581
CCI MO# M732120, PN 97034E80Z
8. Nom. thickness (in.) *.931"* Min. design thickness (in.) *.989"* Dia. ID (ft & in.) *N/A* Length overall (ft & in.) *3.7"*
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	Part or Apurtenance Serial Number	National Board No. in Numerical Order
(1.)	M732120	
(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 Apurtenance 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 *275* psi. Temp. *100* 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 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Form N–2

FORM N–2 (Back – Pg. 2 of 2)

Certificate Holder's Serial Nos. SEE PG. 1 through N/A

CERTIFICATION OF DESIGN

Design specification certified by F.C.A. DOWSETT (when applicable) P.E. State PA Reg. no. 19854E

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) DISC conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. 2696 Expires JUNE 7, 1997

Date 11/30/95 Name CONTROL COMPONENTS 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 CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY of HARTFORD, CONNECTICUT have inspected these items described in this Data Report on 11-30-95, 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 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 11-30-95 Signed (Authorized Inspector) Commissions CA1494 (Nat'l Bd. (including endorsement) 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) Date 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Feedwater System 245A, class 2.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 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) FLEX WEDGE VALVE (LEAKOFF PLUG)	ANCHOR DARLING	VALVE S/N E6734-1-3	N/A	HV24182A	1986	REPLACED	YES
2) FLEX WEDGE VALVE (LEAKOFF PLUG)	CAMCO	HT.NO O84K (PIPE PLUG)	N/A	HV24182A	1994	REPLACEMENT	NO
3) SWING CHECK VALVE	ANCHOR DARLING	3-203	N/A	HV-241F032A	1975	REPAIR	YES
4) SWING CHECK VALVE	ANCHOR DARLING	4-203	N/A	HV-241F032B	1975	REPAIR	YES
5) SWING CHECK VALVE	ANCHOR DARLING	3-203	N/A	HV-241F032A	1975	REPAIR	YES
6) GATE VALVE PIPE PLUG	ANCHOR DARLING	E5853-49-1	N/A	HV255F006	1976	REPLACED	YES
7) GATE VALVE PIPE PLUG	CAPITOL	HT # 036J PIPE PLUG	N/A	HV255F006	1995	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ * SEE PAGE 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 ORIGINAL CODE OF CONSTRUCTION : Items 3,4 & 5 Check Valves ASME Sec III 1971 ED thru Winter 71 ADD, No Code Cases; Item 1 & 6 ASME Sec III 1971 thru Winter 72 Add And Code Cases 1516-1 & 1534.

Applicable Manufacturer's Data Reports to be attached

We certify that the statements made in the report are correct and this REPLACEMENT AND 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 July 13, 1999

Owner or Owner's Designee, Title Supv. – Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period July 17 1996 to APRIL 28 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]

Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 18 NA PA 2159

National Board, State, Province, and Endorsements

Date July 14 1999

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 06/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Feedwater System 211A, class 2.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A* Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V63463	REPLACED LEAK OFF PLUG BY WELDING	VT-2 PER SE-245-301 Temp 183°F/ Press 1025 psig
3	H40648	PERFORMED TACK WELDING DURING SOFT SEAT REPLACEMENT	VT-2 PER SE-245-301 Temp 183°F/ Press 1025 psig
4	H40649	PERFORMED TACK WELDING DURING SOFT SEAT REPLACEMENT	VT-2 PER SE-245-301 Temp 180°F/ Press 1025 psig
5	V90659	PERFORMED TACK WELDING DURING SOFT SEAT REPLACEMENT	NON VT-2 PER MI-PS-008
6-7	V63107	HV255F006, REPLACE VALVE STUFFING BOX LEAK OFF PLUG.	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) — Date 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

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 RHR System – Pool Spray, Pumps and Auxiliary 249A, class 2.

5. (a) Applicable Construction Code * 19 * Edition, * Addenda, * 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)
1) GATE VALVE (PIPE PLUG)	ANCHOR DARLING	E5854-59-1 (VALVE)	N/A	251F034D	1976	REPLACED	YES
2) GATE VALVE (PIPE PLUG)	CAPITOL	HT # 83R (PIPE PLUG)	N/A	251F034D	1996	REPLACEMENT	NO
3) GATE VALVE (PIPE PLUG)	ANCHOR DARLING	E5854-59-2 (VALVE)	N/A	251F034B	1976	REPLACED	YES
4) GATE VALVE (PIPE PLUG)	CAPITOL	HT # 83R (PIPE PLUG)	N/A	251F034B	1996	REPLACEMENT	NO
5) SWING CHECK VALVE	ANCHOR DARLING	E5854-69-1	N/A	251F046C	1976	REPLACED	YES
6) SWING CHECK VAVLE	FLOWSERVE	E-629A-1-1	N/A	251F046C	1999	REPLACEMENT	YES
7) PLUG VALVE (PLUG ASSEM)	CONTROL COMPONENTS	35188-1-3 (VALVE)	N/A	HV251F017A	1985	REPLACED	YES

7. Description of Work SEE ATTACHED LIST

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

SEE PAGE 3

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

FORM NIS-2 (Back)

9. Remarks MANUFACTURER'S DATA REPORTS ATTACHED. ORIGINAL CODE OF CONST. ANCHOR
Applicable Manufacturer's Data Reports to be attached

DARLING VLVS: ASME III '71 ED WINTER '72 ADD CC:1516-1 & 1534. FLOW SERVE REPLACEMENT

VLV ASME III '71 ED WINTER '72 ADD. CONTROL COMPONENTS ORIGINAL & REPLACEMENT VLV

PARTS ASME III 80 ED WINTER 80 ADD.

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 13, 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 NOV. 10 1999 to APRIL 3 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 2525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date July 14 1999

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 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 RHR System -- Pool Spray, Pumps and Auxiliary 249A, class 2.

5. (a) Applicable Construction Code * 19 * Edition, * Addenda, * 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) PLUG VALVE (PLUG ASSEM)	CONTROL COMPONENTS	1&2	N/A	HV251F017A	1984	REPLACEMENT	YES
9) PLUG VALVE (PLUG ASSEM)	CONTROL COMPONENTS	35188-1-3 (VALVE)	N/A	HV251F017B	1985	REPLACED	YES
10) PLUG VALVE (PLUG ASSEM)	CONTROL COMPONENTS	M300780 S/N1	N/A	HV251F017B	1999	REPLACEMENT	YES
11) PLUG VALVE (PLUG ASSEM)	CONTROL COMPONENTS	35188-1-3 (VALVE)	N/A	HV251F017A	1985	REPLACED	YES
12) PLUG VALVE (PLUG ASSEM)	CONTROL COMPONENTS	M300781 S/N1	N/A	HV251F017A	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) Date 06/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 RHR System – Pool Spray, Pumps and Auxiliary 249A, class 2.

5. (a) Applicable Construction Code * 19 * Edition, * Addenda, * 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V71751	251F034D, REPLACE PIPE PLUG	NON VT-2 PER MI-PS-008
3-4	V71752	251F034B, REPLACE PIPE PLUG	NON VT-2 PER MI-PS-008
5-6	V81693	251F046C, REMOVE AND REPLACE VALVE WITH NEW	VT-2 PER SE-249-301 Temp 75°F & Press 280 Psig
7-8	V90406	HV251F017A, REPLACE VALVE PLUG ASSEBLY WITH IDENTICAL PARTS	NON VT-2 PER MI-PS-008
9-10	V90496	HV251F017B, REPLACE VALVE PLUG ASSEMBLY WITH NEW DESIGN & REPLACEMENT OF STUFFING BOX PLUG	NON VT-2 PER MI-PS-008
11-12	V90497	HV251F017A, REPLACE VALVE PLUG ASSEMBLY WITH NEW DESIGN & REPLACEMENT OF STUFFING BOX PLUG	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

1. Manufactured by Flowserve Corp. 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. E-629A

2. Manufactured for Pennsylvania Power & Light Company P. O. Box 25223, Leigh Valley, PA 18002-5223 (Name and Address) Order No. 8-14892-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna, 5 miles NE of Berwick on US Rt 11, P.O. Box 467, Berwick, PA 18603

5. ~~x~~Valve Identification E-629A-1-1

4" - 300# Swing Check Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. W9825179 R/B Prepared by Flowserve Corp.

(b) National Board No. N/A

6. Design Conditions 720 (Pressure) psi 100 (Temperature) °F

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

Edition 1971, Addenda Date Winter 72, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT #C7809 S/N H53	SA216-WCB	Quaker Alloy Inc.	
(b) Forgings			
Disc HT #G5082 S/N -1	SA105	Patriot Forge	

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	Bonnet Studs			
	HT #8860543	SA193-B7	Accutech	
	Bonnet Nuts			
	HT #M63434	SA194-2H	Allied Group	
(d)	Other Parts			
	Bonnet HT #28738	SA516-70	Mid-South Nuclear Inc.	

8. Hydrostatic test 1100 psi.

CERTIFICATION OF DESIGN

Design information on file at Flowserve Corp., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 29882-E

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

(1) Signature not required. List name only.

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

Date 3/12 19 99 Signed Flowserve Corp. (Manufacturer) By R L Stannett

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Province~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the equipment described in this Data Report on 11-11-98 to 3-12 19 99, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-12 19 99

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

This form (E37) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

(2) 46443 — RRHF4B

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART 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 for completed nuclear component)

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 Case No. N/A Class 2

3. Remarks: RESIDUAL HEAT REMOVAL STATION
(Brief description of service for which component was designed)

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 (Kind & Spec. No.) T.S. N/A (Min. of Range Specified) Nominal Thickness N/A in. Corrosion Allowance N/A in. Dia. N/A ft. N/A in. Length N/A ft. 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	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Conv. or Conc.)
(a)	N/A								
(b)	N/A								

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

7. Jacket Closure: N/A (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

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 9 and 10 to be completed for tube sections

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

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 or gage Number N/A Type N/A (Str. or U)

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

11. Shell: Material N/A (Kind & Spec. No.) T.S. N/A (Min. of Range Specified) Nominal Thickness N/A in. Corrosion Allowance N/A in. Dia. N/A ft. N/A in. Length N/A ft. 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

13. Heads: (a) Material N/A T.S. N/A (b) Material N/A T.S. N/A

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

If removable, bolts used (a) N/A (b) N/A (c) N/A Other fastening N/A (Describe or attach sketch)

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

18. Supports: Skirt N/A (Yes or No) Lugs N/A (Number) Legs N/A (Number) Other N/A (Describe) Attached N/A (Where & How)

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.

(The 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. (NPT Certificate Holder) By [signature]

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. & 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, 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 12-11 19 84

[signature] Commissions Ca #1494 [illegible] 2675

RIR-99-0394

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, PLUG 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 1	N/A
(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 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 S/N 1

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) PLUG 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 19Mar 99 Name CCI (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 CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY of HARTFORD, CONNECTICUT have inspected these items described in this Data Report on 3-14-99, 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 3-19-99 Signed [signature] (Authorized Inspector) Commissions [illegible] (Nat'l Bd. (including endorsement) 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 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 Reports 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.)		
(12.)		
(13.)		
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(15.)		
(16.)		
(17.)		
(18.)		
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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.)		
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(42.)		
(43.)		
(44.)		
(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 C C I (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 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 [signature] (Authorized Inspector) Commissions Co. 1494 La 2770 (Nat'l Bd. (including endorsement) 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) — Date 6/16/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — WA # P70289; CODE FORM 98-249-001 (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 System Pool Spray, Pumps and Auxiliary, 249A, Class 3.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 HANGER	BECHTEL	N/A	N/A	SP-HBC-240-H5003	1983	REPAIRED	N

7. Description of Work REMOVED AND REINSTALL HANGER CLIP

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NOT APPLICABLE

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 _____ (Owner or Owner's Designee, Title) Supv. - Site Modifications Group Date July 13, 19 99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period MAY 24, 1998 to AUG. 12, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

_____ FACTORY MUTUAL ENGRG. ASSOC.

Inspector's Signature

Commissions NB 7525 18NA PA2159

National Board, State, Province, and Endorsements

Date July 14 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: PP&L Inc. (Name) — Date: 6/21/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

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: RHR System – Steam Condensing Mode 249B, class 2.

5. (a) Applicable Construction Code: ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 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) HEAT EXCHANGER (STUDS)	MLW IND	10641-Q	124	2E205B	1976	REPLACED	YES
2) HEAT EXCHANGER (STUDS QTY 20)	GE	HT.NO 68606	N/A	2E205B	1982	REPLACEMENT	NO
3) HEAT EXCHANGER (NUTS)	MLW IND	10641-Q	124	2E202B	1976	REPLACED	YES
4) HEAT EXCHANGER (NUTS 40 TOTAL)	ACCUTECH (18) GE (10) A & G (8)	HT # UW1 (18) HT # 6641(10) HT # HDE (8)	N/A	2E202B	1987	REPLACEMENT	NO
5) CONDUCTIVITY CELL	GE	N/A	N/A	RV-CE-E11-2N001B	N/A	REPLACED	NO
6) CONDUCTIVITY CELL	GE	N/A	N/A	RV-CE-E11-2NOO1B	N/A	REPLACEMENT	NO
7) HEAT EXCHANGER (STUDS)	MLW IND	10641-Q	124	2E205B	1976	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 3

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

FORM NIS-2 (Back)

9. Remarks ORIGINAL CODE OF CONSTRUCTION : Heat exchanger 2E205A & B ASME Sec III 1971 ED
Applicable Manufacturer's Data Reports to be attached

Thru Winter 72 Add, NO Code Cases. ITEM # 5-6 Conductivity Element, PURCHASED per

Owners Requirement PP&L SPECIFICATION 234A9985.

We certify that the statements made in the report are correct and this REPLACEMENT /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 July 13, 1999
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period MARCH 19 1999 to APRIL 23, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 IBNA PA 2459
National Board, State, Province, and Endorsements

Date JULY 14 1999

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 6/21/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 3

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

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 RHR System – Steam Condensing Mode 249B, class 2.

5. (a) Applicable Construction Code ASME SecIII * 19 71 Edition, thru W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 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 EXCHANGER (STUDS QTY 6)	ACCUTECH	HT # 4189491320	N/A	2E205B	1997	REPLACEMENT	NO
9) HEAT EXCHANGER (NUTS)	MLW IND	10641-Q	124	2E202B	1976	REPLACED	YES
10) HEAT EXCHANGER (NUTS QTY 7)	A & G	HT # DLI	N/A	2E202B	1987	REPLACEMENT	NO
11) SMALL PIPE HANGER (STUDS)	BECHTEL	N/A	N/A	SPHRC235-H9001	1983	REPLACED	NO
12) SMALL PIPE HANGER (STUDS)	NOVA/LTV	HT CD # TYI	N/A	SPHRC235-H9001	1991	REPLACEMENT	NO
13) SMALL PIPE HANGER (NUTS)	BECHTEL	N/A	N/A	SPHRC235-H9001	1983	REPLACED	NO
14) SMALL PIPE HANGER (NUTS)	J SMIT	HT # B78528	N/A	SPHRC235-H9001	1991	REPLACEMENT	NO
15) HEAT EXCHANGER	MLW IND	10641-Q	124	2E202B	1976	REPAIRED	YES
16) HEAT EXCHANGER	MLW IND	10639-Q	122	2E202A	1976	REPAIRED	YES

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

1. Owner PP&L Inc. (Name) — Date 06/21/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 3

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

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 RHR System – Steam Condensing Mode 249B, class 2.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	V90587	2E205B, REPLACE STUDS AND NUTS DURING RETORQUE, SHELL TO TUBESHEET	NON VT2 PER MI-PS-008.
5-6	V81731	RV-CE-E11-2N001B, REPLACE CONDUCTIVITY ELEMENT	NON VT2 PER MI-PS-008.
7-14	P82762	2E205B, REPLACE STUDS AND NUTS, SP-HRC235-H9001 REPLACE SUPPORT STUDS AND NUTS	NON VT2 PER MI-PS-008
15	V98672	2E205B, REPAIRED HEAT EXCHANGER SUPPORT LEG LINEAR INDICATIONS.	ISI VT-3 BASELINE EXAMINATION OF REPAIRED AREA
16	P90959	2E205A,REPAIRED HEAT EXCHANGER SUPPORT LEG LINEAR INDICATIONS.	ISI VT-3 BASELINE EXAMINATION OF REPAIRED AREA

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 6/21/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — WA # P71603; CODE FORM 98-250-001 (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 RCIC Turbine and Aux. System, 250B, Class 1.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, 1516-1 * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* 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) PRESSURE SEAL GATE VALVE (PIPE PLUG)	ANCHOR DARLING	E5853-43-1	N/A	HV-249F008	1976	REPLACED	YES
2) PRESSURE SEAL GATE VALVE (PIPE PLUG)	ANCHOR DARLING	HT # 9162	N/A	HV-249F008	1998	REPLACEMENT	NO

7. Description of Work REPLACE VALVE STUFFING BOX PIPE PLUG

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 July 13, 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 MARCH 29 1999 to APRIL 4 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

FACTORY MUTUAL ENGRG. ASSOC.

Commissions: NB 7525 IBNA PA2159

National Board, State, Province, and Endorsements

Date July 14 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 PP&L Inc. (Name) — Date 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — SEE PAGE 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. Indentification of System RCIC Turbine and Aux.(Steam Loops & Flow Control) System, 250B, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * Addenda, * 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)
1) RUPTURE DISC	BS&B SAFETY SYSTEMS	HT # 886798 LOT # 84090018-1	N/A	PSE2D001	1984	REPLACED	NO
2) RUPTURE DISC	BS&B SAFETY SYSTEMS	HT # 886798 LOT # 84090018-1	N/A	PSE2D001	1984	REPLACEMENT	NO
3) RUPTURE DISC	BS&B SAFETY SYSTEMS	HT # 886798 LOT # 84090018-1	N/A	PSE2D002	1984	REPLACED	NO
4) RUPTURE DISC	BS&B SAFETY SYSTEMS	HT # 886798 LOT # 84090018-1	N/A	PSE2D002	1984	REPLACEMENT	NO
5) PRESSURE SEAL GATE VALVE (PIPE PLUG)	SCHUTTE & KOERTING	T-37127-B (TURBINE SKID)	N/A	HV-25012	N/A	REPLACED	YES
6) PRESSURE SEAL GATE VALVE (PIPE PLUG)	COLONIAL MACHINE	HT # AEM	N/A	HV-25012	1989	REPLACEMENT	NO

7. Description of Work SEE PAGE 2

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE PAGE 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 ORIGINAL AND REPLACEMENT FOR ITEM 1-4 CODE OF CONST ASME SEC III, EDITION
Applicable Manufacturer's Data Reports to be attached

CLASS 2 1971 EDITION SUMMER 1973 ADDENDA. VALVE HV25012 SUPPLIED AS SUBCOMPONENT

OF RCIC TURBINE SKID, CODE OF CONST, 1968 PUMP AND VALVE CODE DRAFT EDITION.

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 13 ,19 99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period OCT. 27, 1998 to MARCH 26, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date July 14 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 PP&L Inc. (Name) Date 06/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 RCIC Turbine and Aux.(Steam Loops & Flow Control) System, 250B, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * Addenda, * 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	P81046	REPLACEMENT OF RUPTURE DISCS AS PART OF PREVENTATIVE MAINTENANCE	VT-2 PER SE-250 ON INNER RUPTURE DISC (STEAM SUPPLY @ 950 psig; PUMP DISCHARGE @ 1200 psig)
5-6	V80281	HV25012, REPLACED VALVE STUFFING BOX PIPE PLUG	NON VT-2 PER MI-PS-008

8 6 1 3 4 1 2 1 0

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 9 OF 14

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 6/18/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Core Spray System 251A, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * 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) RELIEF VALVE	ANDERSON GREENWOOD	N26881	2173	PSV 252F032A	1992	REPLACED	YES
2) RELIEF VALVE	ANDERSON GREENWOOD	N26880	2172	PSV 252F032A	1992	REPLACEMENT	YES
3) GATE VALVE (PIPE PLUG)	PACIFIC VALVE	0026-6 VALVE	N/A	252F002B	1976	REPLACED	YES
4) GATE VALVE (PIPE PLUG)	CAPITOL	HT # 73N PIPE PLUG	N/A	252F002B	1995	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE PAGE 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 ITEM # 1-2 (relief vlv's) Original and Replacement Codes of Const : ASME Sec III 1986
Applicable Manufacturer's Data Reports to be attached

Edition No Add. ITEM 3, Gate Valve Original Code of Const : ASME Sec III 1971 thru Winter 72 Add and

Code Cases 1335-9, 1516-1, 1567 & 1622.

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 July 13, 1999
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period SEPT. 29, 1999 to JAN. 22, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date July 14 1999

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 06/18/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

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

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 Core Spray System 251A, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	P83047	REPLACED 1 X 2 RELIEF VALVE WITH REFURBISHED VALVE FROM WAREHOUSE.	NON VT-2 PER MI-PS-008
3-4	V70608	252F002B, REPLACED VALVE STUFFING BOX PIPE PLUG.	NON VT-2 PER MI-PS-008

P.O.# 1-39392-1

ITEM 02

...HOLDERS' DATA REPORT FOR PRESSURE OR VACUUM RELIEF VALVES*

As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

1. Manufactured and certified by ANDERSON, GREENWOOD & CO., 3950 GREENBRIAR, STAFFORD, TX. 77477
(name and address of NV 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 POWER STATION, 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 1866
(name and address)

4. Valve 81PFS808A16ALG-N2 (model no., series no.) Orifice size 1½ (in.) Nom. inlet size 1 (in.) Outlet size 2 (in.)

5. ASME Code, Section III, Division 1: 1986 (edition) NONE (addenda date) 2 (class) N/A (Code Case no.)

6. Type SPRING (spring, pilot or power operated) 100 (set pressure, psig) FIXED (blowdown, psi) 70°F (rated temp.) 425 (hydro. test, psig, inlet) at AMBIENT °F

7. Identification N26880 (Cert. Holder's serial no.) N/A (CRN) N06-1701 R/A (drawing no.) 2172 (Nat'l. Bd. no.) 1992 (year built)

8. Control ring settings N/A CBOM N06-1701-005 R/A

PAGE 2A

9. Pressure retaining items:

	Serial No. or Identification	Mat'l. Spec., Including Type or Grade	Tensile Strength
Body	DF	SA351-CF8M	70
Bonnet or Yoke FLG INL	614TNF	SA182-F316	75
Support Rods FLG OUT	501TNF	SA182-F316	75
Nozzle SLEEVE	6178	SA479-316	75
Disk COLLAR	6151	SA479-316	75
Spring Washers GUIDE	6120	SA479-316	75
Adjusting Screws	N/A	SA479-316	75
[illegible]	33289	SA479-316	75
	N/A	N/A	N/A
[illegible]	05-1007-197	SA193-B8M	75
Other Items NIPPLE	WRA	SA312-316	75

10. Relieving capacity 56 GPM (steam or fluid, lb/hr) @ 10% (psi) overpressure as certified by the National Board 1-22-91 (date)

Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by DONALD M PAPA P.E. State TX Reg. no. 35992

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 valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

Certificate of Authorization No. N-2825 Expires 9-10-93

3/27/92 Name ANDERSON, GREENWOOD & CO. (NV Certificate Holder) Signed Joseph A. Parker (authorized representative)

*Additional 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 NV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. N2688C

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 valve described in this Data Report on 3-27-92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this valve in accordance with the ASME Code, Section III, Division 1.

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

Date 3-27-92 Signed [signature] (Authorized Inspector) Commissions TX863 NB7582 (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) Date 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 HPCI Turbine and Auxiliary 252B, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * 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) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	A0917 (VALVE)	N/A	255F055	1976	REPLACED	YES
2) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	AV94-B10 (STEM/DISC)	N/A	255F055	1998	REPLACEMENT	YES
3) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	A0917 (VALVE)	N/A	255F055	1976	REPLACED	YES
4) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	255F055	1998	REPLACEMENT	NO
5) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	A0927 (VALVE)	N/A	255F056	1977	REPLACED	YES
6) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	AV94-B15 (STEM/DISC)	N/A	255F056	1998	REPLACEMENT	YES
7) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	A0927 (VALVE)	N/A	255F056	1977	REPLACED	YES

7. Description of Work SEE ATTACHED LIST

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

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

FORM NIS-2 (Back)

9. Remarks Code Data Reports are attached. See Discription of work for Codes of Construction

Applicable Manufacturer's Data Reports to be attached

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 13, 1999

CERTIFICATION OF INSERVICE INSPECTION

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

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 IBNA PA 2158
National Board, State, Province, and Endorsements

Date Jul. 14 1999

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 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 HPCI Turbine and Auxiliary 252B, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * 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) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	255F056	1998	REPLACEMENT	NO
9) GLOBE VALVE (STEM & PLUG ASSEMBLY)	MASONEILAN	N00186-11-2 (VALVE)	N/A	HV256F025	1978	REPLACED	YES
10) GLOBE VALVE (STEM & PLUG ASSEMBLY)	MASONEILAN	N00186-522	N/A	HV256F025	1986	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 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 HPCI Turbine and Auxiliary 252B, Class 2.

5. (a) Applicable Construction Code * 19 * Edition, * Addenda, * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE DISCRIPTION OF WORK)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	V81113	255F055, REPLACE STEM/DISC ASSM. ORIG C.O.C ASME III 1974 ED/W74 ADD. NEW PARTS ASME III 1986 ED/ NO ADD.	NON VT-2 PER MI-PS-008
5-8	V81113	255F056, REPLACE STEM/DISC ASSM. ORIG C.O.C ASME III 1974 ED/W74 ADD. NEW PARTS ASME III 1986 ED/ NO ADD.	NON VT-2 PER MI-PS-008
9-10	V63788	HV256F025, REPLACED STEM & PLUG ASSEMBLY, ORIGINAL VALVE AND REPLACEMENT ITEM C.O.C. ASME III 1974 EDITION WINTER 1975 ADDENDA	NON VT-2 PER MI-PS-008

WIP ORDER 5006907 SALES ORDER NO 2003658

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
(1)	AV94-B1	—
(2)	AV94-B2	—
(3)	AV94-B3	—
(4)	AV94-B4	—
(5)	AV94-B5	—
(6)	AV94-B6	—
(7)	AV94-B7	—
(8)	AV94-B8	—
(9)	AV94-B9	—
(10)	AV94-B10	—
(11)	AV94-B11	—
(12)	AV94-B12	—
(13)	AV94-B13	—
(14)	AV94-B14	—
(15)	AV94-B15	—
(16)	AV94-B16	—
(17)	AV94-B17	—
(18)	AV94-B18	—
(19)	AV94-B19	—
(20)	AV94-B20	—
(21)	AV94-B21	—
(22)	AV94-B22	—
(23)	AV94-B23	—
(24)	AV94-B24	—
(25)	AV94-B25	—

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	AV94-B26	—
(27)	AV94-B27	—
(28)	AV94-B28	—
(29)	AV94-B29	—
(30)	AV94-B30	—
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

FTI
OP SUP
PBG

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

05/21/98 Signed _____ (Authorized Inspector) Commissions PA2389 'N' 'S' (Natl. Bd. (incl. endorsements) state or prov. and no.)

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OP SUP
PBG

(2) 20666 A89

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 Co.,2 North 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-Dresser

(b) Description of Part Inspected 1" Plug S/A (Qty.2) P/N 013431-120-1L2 Heat No.s 1810-1-1010-1,

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W 1975, Case No. NA Class 2

3. Remarks: Replacement For Masoneilan Valve Serial No. N00186-11
(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 Jan. 30 19 86 Signed Masoneilan-Dresser By
(Manufacturer)

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 NA

Design specifications certified by Sidney A.Copland Prof. Eng. State Pa. Reg. No. 19877-E

Stress analysis report certified by NA Prof. Eng. State NA Reg. No. NA

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 January 30 1986, 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 January 30 19 86

John B. Caron Commissions Mass 871 Pa WC 9846
Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 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".

(2) 20666 A89

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 6/21/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Standby Liquid Control 253A, Class 2.

5. (a) Applicable Construction Code *ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 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) CHECK VALVE (DISC)	EDWARD	75AEQ	N/A	248F033A	1992	REPLACED	YES
2) CHECK VALVE (DISC)	EDWARD	C52	N/A	248F033A	1992	REPLACEMENT	NO
3) SQUIBB VALVE (INLET FITTING)	CONAX	GE-0440-EQ (4593)	4593	248F004B	1995	REPLACED	YES
4) SQUIBB VALVE (INLET FITTING)	CONAX	GE-539-EQ (5519)	5519	248F004B	1998	REPLACEMENT	YES
5) SQUIBB VALVE (TRIGGER ASSEMBLY)	CONAX	GE-0440-EQ (4622)	4622	248F004B	1995	REPLACED	YES
6) SQUIBB VALVE (TRIGGER ASSEMBLY)	CONAX	GE-539-EQ (5544)	5544	248F004B	1998	REPLACEMENT	YES
7) SQUIBB VALVE (INLET FITTING)	CONAX	GE-480-EQ (5302)	5302	248F004A	1996	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 Manufacturer's Data Reports attached. Item # 1 & 2 Original Valve and Replacement part Code of
Applicable Manufacturer's Data Reports to be attached

Contstruction ASME III Class 1 1974 Edition thru Winter 74 Addenda. Item # 2-10 Original Valve and

Replacement Parts Code of Const.: ASME Sec III 1977 thru Summer 77 Addenda.

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 July 17 ,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 MARCH 26, 1999 to APRIL 4 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date July 14 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 PP&L Inc. (Name) Date 6/21/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Standby Liquid Control 253A, Class 2..

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

Name of 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 (INLET FITTING)	CONAX	GE-540-EQ (5520)	5520	248F004A	1998	REPLACEMENT	YES
9) SQUIBB VALVE (TRIGGER ASSEMBLY)	CONAX	GE-480-EQ (5180)	5180	248F004A	1996	REPLACED	YES
10) SQUIBB VALVE (TRIGGER ASSEMBLY)	CONAX	GE-540-EQ (5545)	5545	248F004A	1998	REPLACEMENT	YES
11) PIPE FLANGE (NUTS)	BECHTEL	N/A	N/A	DCB-205-1 FLANGE M1	1983	REPLACED	YES
12) PIPE FLANGE (NUTS-QTY-8)	ALLIED	HT# M63434	N/A	DCB-205-1 FLANGE M1	1993	REPLACEMENT	NO
13) PIPE FLANGE (STUDS)	BECHTEL	N/A	N/A	DCB-205-1 FLANGE M1	1983	REPLACED	YES
14) PIPE FLANGE (STUDS-QTY-4)	UNYTITE	HT # 88147	N/A	DCB-205-1 FLANGE M1	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) Date 06/21/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Standby Liquid Control 253A, Class 2.

5. (a) Applicable Construction Code *ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V71766	248F033A, REPLACED CHECK VALVE DISC .	VT-2 PER SE-253-301 Press 1320
3-6	H80180	252F004B, REPLACED SQUIBB VALVE INLET FITTING AND TRIGGER ASSEMBLY.	VT-2 PER SE-253-301 Temp 78°F / Press 1350 psig
7-10	H80590	252F004B, REPLACED SQUIBB VALVE INLET FITTING AND TRIGGER ASSEMBLY.	VT-2 PER SE-253-301 Temp 78°F / Press 1350 psig
11-14	V90748	REPLACED FLANGE STUDS AND NUTS.	NON VT-2 PER MI-PS-008

IST Conax nuclear
2300 Walden Avenue Buffalo, NY 14225 716-684-4500 1-800-223-2389 FAX 716-684-7433

Tabulation Of Materials

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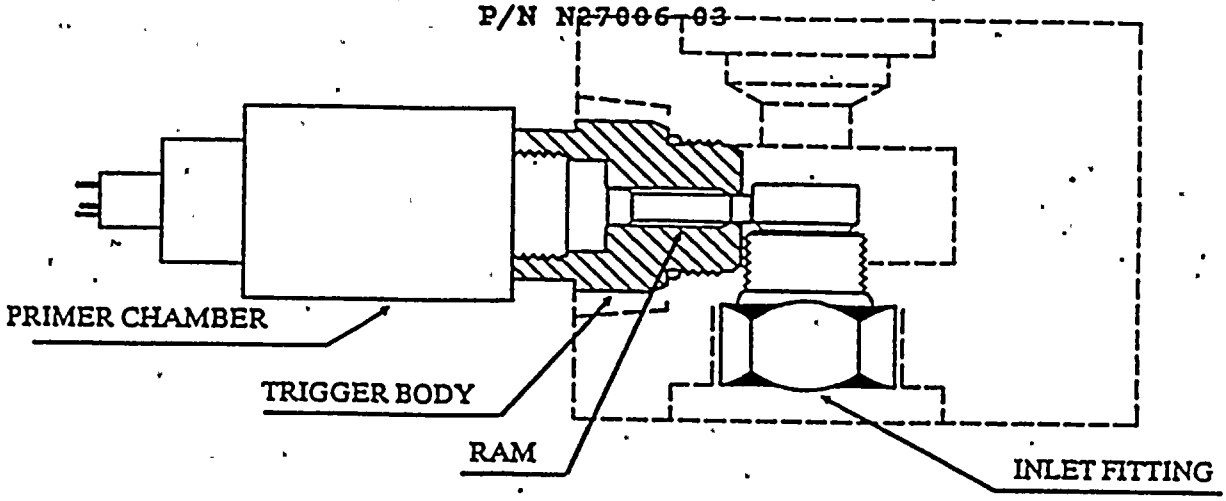
VALVE REPLACEMENT KIT
P/N ~~N27006-03~~



Trigger Body	Ram	Primer Chamber	Inlet Fitting
P/N: N38018-01	P/N: N-39012-01	P/N: N38062-01	P/N: N38017-01B
Vendor: Consolidated Power	Vendor: Carpenter Tech	Vendor: Energy &Proc.	Vendor: Consolidated Power
P.O.: N130674	P.O.: N91896	P.O.: N127479	P.O.: N130674
Heat No.: S36828 ✓	Heat No.: 53891 ✓	Heat No.: 37384 ✓	Heat No.: S36828 ✓
Control No.: 20142 ✓	Control No.: 20204 ✓	Control No.: 20011 ✓	Control No.: 20078 ✓
Trigger Subassembly N.B.S/N: 5545 ✓		SEP S/N: 1237 ✓	N.B. S/N: 5520 ✓

Customer: General Electric Nuclear Energy
Customer P.O.: 52898028102
Conax S.O.: 7PL800
MPL NO.: C41-F004
G..E. S/N: G.E.-540-EQ ✓

IST Conax Nuclear Quality: [signature] Date: 8/5/98

GE-QA [signature] F.P. CORONA 8.5.98

6

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)		
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	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)		
(27)		
(28)		
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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.)

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 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)		
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(17)		
(18)		
(19)		
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(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)		
(27)		
(28)		
(29)		
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(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.

9.6.98

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. Coughlin (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.

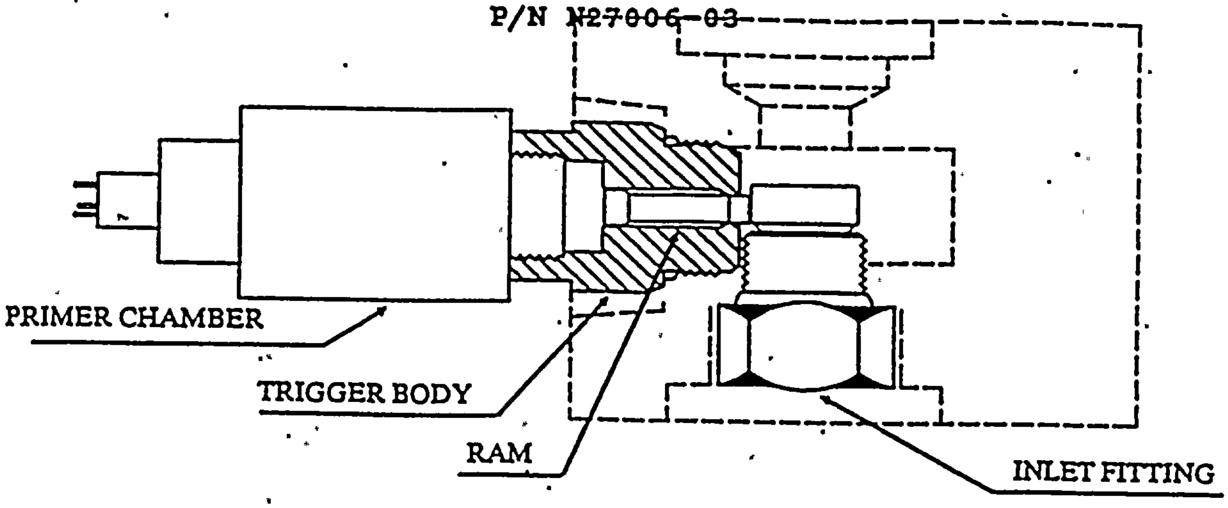
Date 8-4-98 Signed (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

ist conax nuclear
2300 Walden Avenue Buffalo, NY 14225 716-684-4500 1-800-223-2389 FAX 716-684-7433

Tabulation Of Materials

13

VALVE REPLACEMENT KIT
P/N ~~N27006-03~~



Trigger Body	Ram	Primer Chamber	Inlet Fitting
P/N: N38018-01	P/N: N-39012-01	P/N: N38062-01	P/N: N38017-01B
Vendor: Consolidated Power	Vendor: Carpenter Tech	Vendor: Energy &Proc.	Vendor: Consolidated Power
P.O.: N130674	P.O.: N91896	P.O.: N127479	P.O.: N130674
Heat No.: S36828 ✓	Heat No.: 53891 ✓	Heat No.: 37384 ✓	Heat No.: S36828 ✓
Control No.: 20141 ✓	Control No.: 20203 ✓	Control No.: 20010 ✓	Control No.: 20077 ✓
Trigger Subassembly N.B.S/N: 5544 ✓		SEP S/N: 1236 ✓	N.B. S/N: 5519 ✓

Customer:	General Electric Nuclear Energy
Customer P.O.:	52898028102
Conax S.O.:	7PL800
MPL NO.:	C41-F004
G..E. S/N:	G.E.-539-EQ ✓

IST Conax Nuclear Quality: [signature] Date: 8/5/98

GE-QA [signature] F.P. CORONA 8-5-98

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)		
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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.

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 [signature] (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

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 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)		
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	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)		
(27)		
(28)		
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(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.

9.6.98

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 [signature] (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

PP&L FORM 2778Q

SSES MATL. TAG

CAT. NO. 1423

MATL. CODE Q

ASME CODE/ CLASS ASME SEC.III CL.2

P.O. NO. 8-13153-1

SHELF LIFE EXP. 07/31/00

DESC. KIT,VALVE REPLACEMENT
LOT#-TOS97K001-001

MFGR. IST CONAX

PART NO. N27006-03

MODEL NA

S/N GE-539-EQ

RIR 98-1118

HT #

HT CODE

WA NO.

INSTALLATION LIMITATIONS

LIMITATIONS
'77 ED.,S'77 ADD.
RIE 86-0151

WA# H80180

REFERENCES
ST359

Page 2 of 2

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by EDWARD VALVES INC. 1900 S. SAUNDERS ST. RALEIGH, NC 27603
2. Manufactured for PENNSYLVANIA POWER & LIGHT Co. P.O. Box 467 BERWICK PA 18603
3. Location of installation SUSQUEHANNA SES BERWICK, PA 18603
4. Type D91-22940-04R/0 A732 Gr. 21/A562Gr... N/A N/A 1992
5. ASME Code, Section III: 1974 WINTER 1974 1 N/A
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
7. Remarks: DISK FOR CHECK VALVE — 1½" D36274(F316)TI

SO. 36-22940-12

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	C-32	N/A	(26)		
(2)	C-35	N/A	(27)		
(3)	C-57	N/A	(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 92-0215 PACKAGE PAGE 18 of 50

10. Design pressure 2240 psi. Temp. 800 °F. Hydro. test pressure N/A at temp. °F

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

Page 2 of 2

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

Pg. 1, Serial No. C-SL-25-53

CERTIFICATION OF DESIGN

Not To Exceed One Day's Production

Pg. 1 of 2

Edward Valves Inc, 1900 S. Saunders St. Raleigh NC 27603

Design specifications certified by MATTHEW HOBER JR P.E. State PA Reg. no. 20118E

Pennsylvania Power & Light Co. 2 Box 467 Berwick PA 18603

Design report* certified by ________ P.E. State ________ Reg. no. ________

Susquehanna SES Berwick PA 18603

CERTIFICATE OF SHOP COMPLIANCE

N/A

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

N/A N/A N/A

NPT Certificate of Authorization No. N1563 Expires 11/26/94

Date 3/11/92 Name EDWARD VALVES INC Signed [signature]

(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

N/A N/A N/A

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 these items described in this Data Report on 3-12-92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 3-12-92 Signed [signature] Commissions NC1053

(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) State or Prov. and No.)

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

1. Owner PP&L Inc. (Name) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru W75 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) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1925	N/A	HCU-4235	1975	REPLACED	YES
2) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8077	N/A	HCU-4235	1998	REPLACEMENT	YES
3) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1882	N/A	HCU-2643	1975	REPLACED	YES
4) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8104	N/A	HCU-2643	1998	REPLACEMENT	YES
5) VALVE (STEM DISC ASSM)	DRAGON	EM-1532 VALVE	N/A	247F101-3807	1977	REPLACED	YES
6) VALVE (STEM DISC ASSM)	DRAGON	HT.NO.46190 DISC	N/A	247F101-3807	1983	REPLACEMENT	NO
7) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1235	N/A	HCU-3459	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; CODE OF CONSTRUCTION: DRAGON VALVE & PART

Applicable Manufacturer's Data Reports to be attached

ASME III, '74W'75; ALL VOGT VALVE ASME III '71 S '73; PARTS ASME III '89 NO ADD.

GE ACCUMULATORS: ASME VIII, (YEAR1997) '95 ED. '96 ADD.& (YEAR 1998)'95 ED. '97 ADD.

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 13 , 19 99

(Owner or Owner's Designee, Title) Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period MAY 13 1998 to APRIL 28 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]

Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 IBNA PA2159

National Board, State, Province, and Endorsements

Date July 14 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 PP&L Inc. (Name) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

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)
8) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8093	N/A	HCU-3459	1998	REPLACEMENT	YES
9) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1863	N/A	HCU-0239	1975	REPLACED	YES
10) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8105	N/A	HCU-0239	1998	REPLACEMENT	YES
11) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	2002	N/A	HCU-1039	1975	REPLACED	YES
12) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8084	N/A	HCU-1039	1998	REPLACEMENT	YES
13) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1891	N/A	HCU-1807	1975	REPLACED	YES
14) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7134	N/A	HCU-1807	1997	REPLACEMENT	YES
15) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1910	N/A	HCU-2219	1975	REPLACED	YES
16) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7236	N/A	HCU-2219	1997	REPLACEMENT	YES
17) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1949	N/A	HCU-2615	1975	REPLACED	YES
18) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8103	N/A	HCU-2615	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) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

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)
19) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1774	N/A	HCU-2647	1975	REPLACED	YES
20) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7268	N/A	HCU-2647	1997	REPLACEMENT	YES
21) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1875	N/A	HCU-3407	1975	REPLACED	YES
22) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7215	N/A	HCU-3407	1997	REPLACEMENT	YES
23) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1892	N/A	HCU-3419	1975	REPLACED	YES
24) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7173	N/A	HCU-3419	1997	REPLACEMENT	YES
25) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	2005	N/A	HCU-3455	1975	REPLACED	YES
26) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8140	N/A	HCU-3455	1998	REPLACEMENT	YES
27) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1381	N/A	HCU-3859	1975	REPLACED	YES
28) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8141	N/A	HCU-3859	1998	REPLACEMENT	YES
29) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1312	N/A	HCU-4259	1975	REPLACED	YES

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

1. Owner PP&L Inc. (Name) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 4 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

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)
30) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8113	N/A	HCU-4259	1998	REPLACEMENT	YES
31) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1948	N/A	HCU-4627	1975	REPLACED	YES
32) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8142	N/A	HCU-4627	1998	REPLACEMENT	YES
33) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1943	N/A	HCU-5027	1975	REPLACED	YES
34) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8061	N/A	HCU-5027	1998	REPLACEMENT	YES
35) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1314	N/A	HCU-5035	1975	REPLACED	YES
36) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8143	N/A	HCU-5035	1998	REPLACEMENT	YES
37) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1867	N/A	HCU-4623	1975	REPLACED	YES
38) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8112	N/A	HCU-4623	1998	REPLACEMENT	YES
39) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	2000	N/A	HCU-3035	1975	REPLACED	YES
40) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7171	N/A	HCU-3035	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) — Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 11

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

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 Control Rod Hydraulics System 255B, class 2.

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)
41) GATE (DISC)	HENRY VOGT	1240-193645 (VALVE)	N/A	147112 (HCU-0243)	1974	REPLACED	YES
42) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-0243)	1997	REPLACEMENT	YES
43) GATE (DISC)	HENRY VOGT	974-193645 (VALVE)	N/A	147112 (HCU-0627)	1974	REPLACED	YES
44) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-0627)	1997	REPLACEMENT	YES
45) GATE (DISC)	HENRY VOGT	1140-193645 (VALVE)	N/A	147112 (HCU-0639)	1974	REPLACED	YES
46) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-0639)	1997	REPLACEMENT	YES
47) GATE (DISC)	HENRY VOGT	712-193645 (VALVE)	N/A	147112 (HCU-1431)	1974	REPLACED	YES
48) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-1431)	1997	REPLACEMENT	YES
49) GATE (DISC)	HENRY VOGT	833-193645 (VALVE)	N/A	147112 (HCU-1443)	1974	REPLACED	YES
50) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-1443)	1997	REPLACEMENT	YES
51) GATE (DISC)	HENRY VOGT	1052-193645 (VALVE)	N/A	147112 (HCU-1851)	1974	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) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 6 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

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)
52) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-1851)	1997	REPLACEMENT	YES
53) GATE (DISC)	HENRY VOGT	166-193645 (VALVE)	N/A	147112 (HCU-2247)	1974	REPLACED	YES
54) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-2247)	1997	REPLACEMENT	YES
55) GATE (DISC)	HENRY VOGT	1245-193645 (VALVE)	N/A	147112 (HCU-2643)	1974	REPLACED	YES
56) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO AH5770	N/A	147112 (HCU-2643)	1997	REPLACEMENT	YES
57) GATE (DISC)	HENRY VOGT	663-193645 (VALVE)	N/A	147112 (HCU-2647)	1974	REPLACED	YES
58) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-2647)	1997	REPLACEMENT	YES
59) GATE (DISC)	HENRY VOGT	1305-193645 (VALVE)	N/A	147112 (HCU-3815)	1974	REPLACED	YES
60) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-3815)	1997	REPLACEMENT	YES
61) GATE (DISC)	HENRY VOGT	1411-193645 (VALVE)	N/A	147112 (HCU-4211)	1974	REPLACED	YES
62) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4211)	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) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 7 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

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)
63) GATE (DISC)	HENRY VOGT	938-193645 (VALVE)	N/A	147112 (HCU-4219)	1974	REPLACED	YES
64) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4219)	1997	REPLACEMENT	YES
65) GATE (DISC)	HENRY VOGT	1125-193645 (VALVE)	N/A	147112 (HCU-4223)	1974	REPLACED	YES
66 GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4223)	1997	REPLACEMENT	YES
67) GATE (DISC)	HENRY VOGT	578-193645 (VALVE)	N/A	147112 (HCU-4247)	1974	REPLACED	YES
68) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4247)	1997	REPLACEMENT	YES
69) GATE (DISC)	HENRY VOGT	219-193645 (VALVE)	N/A	147112 (HCU-4655)	1974	REPLACED	YES
70) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4655)	1997	REPLACEMENT	YES
71) GATE (DISC)	HENRY VOGT	2559-181441 (VALVE)	N/A	147112 (HCU-5031)	1974	REPLACED	YES
72) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-5031)	1997	REPLACEMENT	YES
73) GATE (DISC)	HENRY VOGT	2358-181441 (VALVE)	N/A	147112 (HCU-5043)	1974	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) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 8 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, class 2.

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)
74) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-5043)	1997	REPLACEMENT	YES
75) GATE (DISC)	HENRY VOGT	415-193645 (VALVE)	N/A	147112 (HCU-5839)	1974	REPLACED	YES
76) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-5839)	1997	REPLACEMENT	YES
77) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1993	N/A	HCU-0639	1975	REPLACED	YES
78) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8175	N/A	HCU-0639	1998	REPLACEMENT	YES
79) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	VP-CRB-113-2	1983	REPLACED	NO
80) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	VP-CRB-113-2	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) Date 06/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 9 of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, Class 2.

5. (a) Applicable Construction Code ASME Sec 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V73010	REPLACED NITROGEN ACCUMULATOR HCU-4235	NON VT-2 LEAK TEST PER MT-055-002
3-4	V73011	REPLACED NITROGEN ACCUMULATOR HCU-2643	NON VT-2 LEAK TEST PER MT-055-002
5-6	V81156	REPLACED VALVE 247F101-3807	NON VT-2 PER MI-PS-008
7-8	V81374	REPLACED NITROGEN ACCUMULATOR HCU-3459	NON VT-2 LEAK TEST PER MT-055-002
9-10	V81497	REPLACED NITROGEN ACCUMULATOR HCU-0239	NON VT-2 LEAK TEST PER MT-055-002
11-12	V81498	REPLACED NITROGEN ACCUMULATOR HCU-1039	NON VT-2 LEAK TEST PER MT-055-002
13-14	V81499	REPLACED NITROGEN ACCUMULATOR HCU-1807	NON VT-2 LEAK TEST PER MT-055-002
15-16	V81500	REPLACED NITROGEN ACCUMULATOR HCU-2219	NON VT-2 LEAK TEST PER MT-055-002
17-18	V81501	REPLACED NITROGEN ACCUMULATOR HCU-2615	NON VT-2 LEAK TEST PER MT-055-002
19-20	V81502	REPLACED NITROGEN ACCUMULATOR HCU-2647	NON VT-2 LEAK TEST PER MT-055-002
21-22	V81503	REPLACED NITROGEN ACCUMULATOR HCU-3407	NON VT-2 LEAK TEST PER MT-055-002
23-24	V81504	REPLACED NITROGEN ACCUMULATOR HCU-3419	NON VT-2 LEAK TEST PER MT-055-002
25-26	V81505	REPLACED NITROGEN ACCUMULATOR HCU-3455	NON VT-2 LEAK TEST PER MT-055-002
27-28	V81506	REPLACED NITROGEN ACCUMULATOR HCU-3859	NON VT-2 LEAK TEST PER MT-055-002
29-30	V81507	REPLACED NITROGEN ACCUMULATOR HCU-4259	NON VT-2 LEAK TEST PER MT-055-002
31-32	V81508	REPLACED NITROGEN ACCUMULATOR HCU-4627	NON VT-2 LEAK TEST PER MT-055-002

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

1. Owner PP&L Inc. (Name) Date 06/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 10 Of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, Class 2.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru W75 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
33-34	V81509	REPLACED NITROGEN ACCUMULATOR HCU-5027	NON VT-2 LEAK TEST PER MT-055-002
35-36	V81510	REPLACED NITROGEN ACCUMULATOR HCU-5035	NON VT-2 LEAK TEST PER MT-055-002
37-38	V80764	REPLACED NITROGEN ACCUMULATOR HCU-4623	NON VT-2 LEAK TEST PER MT-055-002
39-40	V71718	REPLACED NITROGEN ACCUMULATOR HCU-3035	NON VT-2 LEAK TEST PER MT-055-002
41-42	V81887	REPLACED DISC IN HCU-0243 VALVE-147112	NON VT-2 PER MI-PS-008
43-44	V81888	REPLACED DISC IN HCU-0627 VALVE-147112	NON VT-2 PER MI-PS-008
45-46	V81889	REPLACED DISC IN HCU-0639 VALVE-147112	NON VT-2 PER MI-PS-008
47-48	V81890	REPLACED DISC IN HCU-1431 VALVE-147112	NON VT-2 PER MI-PS-008
49-50	V81891	REPLACED DISC IN HCU-1443 VALVE-147112	NON VT-2 PER MI-PS-008
51-52	V81892	REPLACED DISC IN HCU-1851 VALVE-147112	NON VT-2 PER MI-PS-008
53-54	V81893	REPLACED DISC IN HCU-2247 VALVE-147112	NON VT-2 PER MI-PS-008
55-56	V81894	REPLACED DISC IN HCU-2643 VALVE-147112	NON VT-2 PER MI-PS-008
57-58	V81895	REPLACED DISC IN HCU-2647 VALVE-147112	NON VT-2 PER MI-PS-008
59-60	V81896	REPLACED DISC IN HCU-3815 VALVE-147112	NON VT-2 PER MI-PS-008
61-62	V81897	REPLACED DISC IN HCU-4211 VALVE-147112	NON VT-2 PER MI-PS-008
63-64	V81898	REPLACED DISC IN HCU-4219 VALVE-147112	NON VT-2 PER MI-PS-008

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

1. Owner PP&L Inc. (Name) Date 06/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 11 Of 11

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Control Rod Hydraulics System 255B, Class 2.

5. (a) Applicable Construction Code ASME Sec 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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
65-66	V81899	REPLACED DISC IN HCU-4223 VALVE-147112	NON VT-2 PER MI-PS-008
67-68	V81900	REPLACED DISC IN HCU-4247 VALVE-147112	NON VT-2 PER MI-PS-008
69-70	V81901	REPLACED DISC IN HCU-4655 VALVE-147112	NON VT-2 PER MI-PS-008
71-72	V81902	REPLACED DISC IN HCU-5031 VALVE-147112	NON VT-2 PER MI-PS-008
73-74	V81903	REPLACED DISC IN HCU-5043 VALVE-147112	NON VT-2 PER MI-PS-008
75-76	V81904	REPLACED DISC IN HCU-5839 VALVE-147112	NON VT-2 PER MI-PS-008
77-78	V82092	REPLACED NITROGEN ACCUMULATOR HCU-0639	NON VT-2 LEAK TEST PER MT-055-002
79-80	V98610	REPLACED SMALL PIPE AND LEVEL SWITCH VP-CRB-113-2	NON VT-2 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) | 8077 (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.,Sngl.,Lap,Butt)) | H.T. (Spot or Full) | Eff. (%) | H.T. Temp. (F) | Time (hr) | N/A (Girth (Welded,Dbl.,Sngl.,Lap,Butt)) | H.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.	Drain 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) 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'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 5/2, 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) | 8104 (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,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.	Drain 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) 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'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 5/13, 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 _____ (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) | 8093 (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 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,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.	Drain 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) 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 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 8/25, 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) 8105 (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.,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) (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.	Drain 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 08/24/98 Co. name GE-NE (Manufacturer) Signed C.S. Bryant (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 8/13, 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 Jerome P Ennis (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (Incl. endorsements), State, Prov. and No.)

(06/90)

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) | 8084 (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 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.,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.	Drain 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, 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 08/24/98 Co. name GE-NE (Manufacturer) Signed C.S. Piggott (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 7/17, 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 Joseph P Ennis (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) | 7134 (Mfg's serial No.) | N/A (CRN) | 112D3405 G001 Rev 03 (Drawing No.) | N/A (Nat'l Bd. No.) | 1997 (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 1996 (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.	Drain 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) 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.s. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE (Manufacturer) Signed C S 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 5/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/5/97 Signed Jerome P Emmons (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) | 7236 (Mfg's serial No.) | N/A (CRN) | 112D3405 G001 Rev 03 (Drawing No.) | N/A (Nat'l Bd. No.) | 1997 (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 1996 (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)) | FLT. (Spot or Full) | Eff.(%) | FLT. Temp. (F) | Time (hr) | N/A (Girth (Welded,Dbl,Sngl,Lap,Butt)) | FLT. (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) 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's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE (Manufacturer) Signed C.S. Bazzett (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/7, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/5/97 Signed Jacque P Green (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(06/90)

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) | 8103 (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 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.	Drain 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'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 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 5/13, 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 [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) | 7268 (Mfg's serial No.) | N/A (CRN) | 112D3405 G001 Rev 03 (Drawing No.) | N/A (Nat'l. Bd. No.) | 1997 (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 1996 (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)) | (Spot or Full) | (%) | (Temp.(F)) | (Time(hr)) | N/A (Girth (Welded,Dbl.,Sngl.,Lap,Butt)) | (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) 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's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE (Manufacturer) Signed C.S. Bazzett (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/2, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/5/97 Signed Jerome P Ener (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA [Nat'l Board (incl. endorsements), State, Prov. and No.]

(06/90)

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) | 7215 (Mfgr's serial No.) | N/A (CRN) | 112D3405 G001 Rev 03 (Drawing No.) | N/A (Nat'l. Bd. No.) | 1997 (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 1996 (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. ID. (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) _____ (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.	Drain 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, 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 09/04/97 Co. name GE-NE (Manufacturer) Signed C S Bazett (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 9/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

9/5/97 Signed Jerome P Ewers (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(06/90)

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) | 7173 (Mfg's serial No.) | N/A (CRN) | 112D3405 G001 Rev 03 (Drawing No.) | N/A (Nat'l Bd. No.) | 1997 (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 1996 (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) _____ (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.	Drain 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 09/04/97 Co. name GE-NE (Manufacturer) Signed C.S. Bryant (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 9/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/5/97 Signed Jacque P Emery (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) | 8140 (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 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,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) _____ (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.	Drain 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) 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 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 6/5, 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) | 8141 (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 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) _____ (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.	Drain 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'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 08/24/98 Co. name GE-NE (Manufacturer) Signed C.S. Baggett (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 6/12, 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 Jerome P. Emery (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(06/90)

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) | 8113 (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.,Sngl.,Lap,Butt)) | (R.T. (Spot or Full)) | (Eff. (%)) | (R.T. Temp. (F)) | N/A (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) _____ (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.	Drain 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) 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'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 8/5, 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 _____ (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) 8142 (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., Sngl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.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.	Drain 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) 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'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 CSBaggett (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 6/12, 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 Jerome P Ewer (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(06/90)

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) | 8061 (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.,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.	Drain 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'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 S Baggett (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 6/5, 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 James P Ennis (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) 8143 (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. ID. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded, Dbl. Butt, Sgl. Lap, Dbl. Lap, Butt)) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time (hr) N/A Girth (Welded, Dbl. Butt, Sgl. 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) 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'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 Bagatti (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 8/25, 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 Eugene P Ewin (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) 8112 (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.,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) (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.	Drain 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) 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'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 6/5, 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.)

(06/90)

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) | 7171 (Mfg'r serial No.) | N/A (CRN) | 112D3405 G001 Rev 03 (Drawing No.) | N/A (Nat'l. Bd. No.) | 1997 (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 1996 (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)) | FLT. (Spot or Full) | Eff.(%) | FLT. Temp. (F) | Time(hr) | N/A (Girth (Welded,Dbl,Sngl,Lap,Butt)) | FLT.(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.	Drain 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) 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 09/04/97 Co. name GE-NE (Manufacturer) Signed C S Bazett (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/5/97 Signed Jerosan P Evans (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(06/90)

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) | 8175 (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)) | 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

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 C.S. Bryant (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 10/4, 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 James P Evans (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. By Barbara Brayer
(Manufacturer)

Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at

Stress analysis report on file at

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of KENTUCKY and employed by COMMERCIAL UNION INS. CO. of BOSTON, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 5/9 19 97, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date May 15 19 97

Robert L. Murphy Commissions KY 2176
Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 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".

GE 397

MAY 21 1997

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 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

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. Indentification of System CONTAINMENT PRESSURE VESSEL, 259A, 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) REACTOR CAVITY (SEAL PLATE)	CB&I	N/A	N/A	X-001	1983	REPAIR	NO
2) SUPP. POOL B HATCH (GASKET)	CB&I	N/A	N/A	X-200B	1975	REPLACED	NO
3) SUPP. POOL B HATCH (GASKET)	PP&L	N/A	N/A	X-200B	1998	REPLACEMENT	NO
4) CONTAINMENT HEAD (GASKET)	CB&I	N/A	N/A	X-003	1975	REPLACED	NO
5) CONTAINMENT HEAD (GASKET)	PP&L	N/A	N/A	X-003	1998	REPLACEMENT	NO
6) EQUIPMENT HATCH (GASKET)	CB&I	N/A	N/A	X-001	1975	REPLACED	NO
7) EQUIPMENT HATCH (GASKET)	PP&L	N/A	N/A	X-001	1998	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ SEE SHEET 3
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks ALL PENETRATIONS AND HATCHES ORIGINAL DESIGN PER ASME III NE 1971 WITH
Applicable Manufacturer's Data Reports to be attached

SUMMER '72 ADD. CODE CASES 1493,1522,1563,1567,1571.

REPLACEMENT GASKETS ARE NON-CODE.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 13 , 1999
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period SEPT. 1 1998 to APRIL 8 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date July 14 1999

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 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 CONTAINMENT PRESSURE VESSEL, 259A, 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) SUPP. POOL A HATCH (GASKET)	CB&I	N/A	N/A	X-200A	1975	REPLACED	NO
9) SUPP. POOL A HATCH (GASKET)	PP&L	N/A	N/A	X-200A	1998	REPLACEMENT	NO
10) SUPP. POOL B HATCH (GASKET)	CB&I	N/A	N/A	X-200B	1975	REPLACED	NO
11) SUPP. POOL B HATCH (GASKET)	PP&L	N/A	N/A	X-200B	1998	REPLACEMENT	NO
11) CRD HATCH (GASKET)	CB&I	N/A	N/A	X-006	1975	REPLACED	NO
12) CRD HATCH (GASKET)	PP&L	N/A	N/A	X-006	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) Date 6/17/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System CONTAINMENT PRESSURE VESSEL, 259A, 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 AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1	V71203	PV-4665; REPAIR REACTOR CAVITY SEAL PLATE COATINGS.	VT-3 PER ASME XI, 92 ED. '92 ADD.
2-3	H60490	REMOVE AND REINSTALL SUPPRESSION POOL "B" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-016 temp : ambient / press 45 psig
4-5	H80245	REMOVE AND REINSTALL CONTAINMENT HEAD USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-004 temp : ambient / press 45 psig
6-7	H80219	REMOVE AND REINSTALL EQUIPMENT HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-001 temp : ambient / press 45 psig
8-9	H80229	REMOVE AND REINSTALL SUPPRESSION POOL "A" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-015 temp : ambient / press 45 psig
10-11	H80230	REMOVE AND REINSTALL SUPPRESSION POOL "B" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-016 temp : ambient / press 45 psig
12-13	H80228	REMOVE AND REINSTALL CRD HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-005 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 7/13/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

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. Indentification of System Reactor Water Cleanup System 261B, CLASS I.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* 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 (BONNET ASSM)	ANCHOR DARLING	E5853-64-1 (VALVE)	N/A	HV244F001	1975	REPLACED	YES
2) VALVE (BONNET ASSM)	ANCHOR DARLING	S/N 2 (BONNET)	N/A	HV244F001	1988	REPLACEMENT	YES
3) VALVE (PIPE PLUG)	ANCHOR DARLING	E5853-64-1 (VALVE)	N/A	HV244F001	1975	REPLACED	YES
4) VALVE (PIPE PLUG)	CAPITIOL	HT CD # 093L	N/A	HV244F001	1996	REPLACEMENT	NO
5) VALVE	ANCHOR DARLING	E5853-65-1	N/A	HV244F004	1975	REPAIRED	YES

7. Description of Work SEE ATTACHED LIST.

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 Attached. Code of Construction: Original Valve(s) ASME III 1971 Edition thru
Applicable Manufacturer's Data Reports to be attached

Winter 1972 Addenda Code Cases 1516-1, 1534, 1535-2 & 1334-2. Replacement Bonnet Assembly S/N 2

Code of Construction ASME III Class 1 1971 Edition thru 1972 Addenda NO Code Cases.

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT AND 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 _____ Date July 14, 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 MARCH 27 1999 to APRIL 17, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7525 IBUA PA 2159
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 PP&L Inc. (Name) Date 7/13/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 Cleanup System 261B, CLASS I.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, Thru W72 Addenda, * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	V82061	HV244F001, REPLACE BONNET ASSEMBLY AND PIPE PLUG	VT-2 PER TP-000-001 TEMP 160°F AND PRESS. 1054 PSI
5	V82062	HV244F001, REPAIRED DISC BY MACHINING FOR PROPER CLEARANCE.	NON VT-2 PER MI-PS-008

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. I

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., 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 - 2 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D7912 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Bonnet; Heat No. A928 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 1

3. Remarks: 6"-600#-Gate
(Brief description of service for which component was designed)

A/DV S.O. P-C817-5

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 2/12 19 88 Signed Anchor/Darling Valve Co. By R L Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/89 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 1-27-88 thru 2-12-88 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 2-12 19 88

Charles Young
Charles Young

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

No. 88-[illegible]
RECORD PACKAGE
PAGE 2 OF [illegible]

*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

8 3 0 9 0 2 1 2 0 1

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 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System Reactor Water Cleanup SYSTEM 261B, CLASS III.

5. (a) Applicable Construction Code ASME Sec III * 19 74 Edition, thru W74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* 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) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	A0758 (VALVE)	N/A	244F022A	1977	REPLACED	YES
2) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	AV94-B29 (STEM/DISC)	N/A	244F022A	1998	REPLACEMENT	YES
3) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	A0758 (VALVE)	N/A	244F022A	1977	REPLACED	YES
4) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	244F022A	1998	REPLACEMENT	NO
5) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	A0728 (VALVE)	N/A	244F023A	1977	REPLACED	YES
6) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	AV94-B28 (STEM/DISC)	N/A	244F023A	1998	REPLACEMENT	YES
7) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	A0728 (VALVE)	N/A	244F023A	1977	REPLACED	YES

7. Description of Work SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE SHEET 3
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Code Data Report Attached. Replacement Code of Construction: parts manufactured per ASME III Class 1 1986 Edition No Addenda.

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 13, 1999

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period NOV. 11, 1999 to APRIL 6, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions: NB2525 IBNA PA2159
National Board, State, Province, and Endorsements

Date July 14 1999

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 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 3

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

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. Indentification of System Reactor Water Cleanup SYSTEM 261B, CLASS III.

5. (a) Applicable Construction Code ASME Sec III * 19 74 Edition, thru W74 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* 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) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	244F023A	1998	REPLACEMENT	NO
9) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	A0940 (VALVE)	N/A	244F007A	1977	REPLACED	YES
10) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	AV94-B30 (STEM/DISC)	N/A	244F007A	1998	REPLACEMENT	YES
11) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	A0940 (VALVE)	N/A	244F007A	1977	REPLACED	YES
12) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	244F007A	1998	REPLACEMENT	NO
13) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	A0996 (VALVE)	N/A	244F007B	1977	REPLACED	YES
14) GLOBE VALVE (STEM/DISC ASSM)	YARWAY	AV94-B27 (STEM/DISC)	N/A	244F007B	1998	REPLACEMENT	YES
15) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	A0996 (VALVE)	N/A	244F007B	1977	REPLACED	YES
16) GLOBE VALVE (BACKSEAT BUSH)	YARWAY	HT # 5293 (BACKSEAT)	N/A	244F007B	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) Date 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System Reactor Water Cleanup System 261B, CLASS III.

5. (a) Applicable Construction Code ASME Sec 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 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	V71378	244F022A, REPLACE BACKSEAT BUSHING AND STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008
5-8	V71378	244F023A, REPLACE BACKSEAT BUSHING AND STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008
9-12	V71379	244F007A, REPLACE BACKSEAT BUSHING AND STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008
13-16	V71379	244F007B, REPLACE BACKSEAT BUSHING AND STEM/DISC ASSEMBLY.	NON VT-2 PER MI-PS-008

WIP ORDER 5006907 SALES ORDER NO 2003858

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 969155-08 (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
.)	AV94-B1	—
(2)	AV94-B2	—
(3)	AV94-B3	—
(4)	AV94-B4	—
(5)	AV94-B5	—
(6)	AV94-B6	—
(7)	AV94-B7	—
(8)	AV94-B8	—
(9)	AV94-B9	—
(10)	AV94-B10	—
(11)	AV94-B11	—
(12)	AV94-B12	—
(13)	AV94-B13	—
(14)	AV94-B14	—
(15)	AV94-B15	—
(16)	AV94-B16	—
(17)	AV94-B17	—
(18)	AV94-B18	—
(19)	AV94-B19	—
(20)	AV94-B20	—
(21)	AV94-B21	—
(22)	AV94-B22	—
(23)	AV94-B23	—
(24)	AV94-B24	—
(25)	AV94-B25	—

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	AV94-B26	—
(27)	AV94-B27	—
(28)	AV94-B28	—
(29)	AV94-B29	—
(30)	AV94-B30	—
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(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

*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 l 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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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 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System REACTOR VESSEL AND AUX. SYSTEM, 262A, CLASS 1.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 * (* SEE PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 STM RELIEF VALVE (7 STUDS)	CROSBY	N63790-00-0019 (VALVE)	N/A	PSV 241F013L	1980	REPLACED	YES
2) MAIN STM RELIEF VALVE (7 STUDS)	ALLIED	Ht # M62255	N/A	PSV 241F013L	1996	REPLACEMENT	NO
3) MAIN STM RELIEF VALVE (7 STUDS)	CROSBY	N63790-00-0092 (VALVE)	N/A	PSV 241F013H	1981	REPLACED	YES
4) MAIN STM RELIEF VALVE (7 STUDS)	ALLIED	Ht # M62255	N/A	PSV 241F013H	1996	REPLACEMENT	NO
5) MAIN STM RELIEF VALVE (7 STUDS)	CROSBY	N63790-00-0021(VALVE)	N/A	PSV 241F013E	1980	REPLACED	YES
6) MAIN STM RELIEF VALVE (7 STUDS)	ALLIED	Ht # M62255	N/A	PSV 241F013E	1996	REPLACEMENT	NO
7) MAIN STM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0021(VALVE)	N/A	PSV 241F013E	1980	REPLACED	YES

7. Description of Work SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE PAGE 20 – 23)

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORTS ARE ATTACHED. ITEM 1-36 DOCUMENTS SHOP WORK ACTIVITIES
Applicable Manufacturer's Data Reports to be attached
INADVERTENTLY NOT REPORTED DURING THE UNIT 2 8th CYCLE.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed EJP Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 13, 19 99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period FEB. 14 1997 to APRIL 19, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

FACTORY MUTUAL ENGRG. ASSOC.

Commissions UB7525 18WA PA 2159
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 PP&L Inc. (Name) Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 STM RELIEF VALVE (DISC INSERT)	CROSBY	N93185-62-0273	N/A	PSV 241F013E	1996	REPLACEMENT	YES
9) MAIN STM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0021 (VALVE)	N/A	PSV 241F013E	1980	REPLACED	YES
10) MAIN STM RELIEF VALVE (NOZZLE)	CROSBY	N93184-41-0098	N/A	PSV 241F013E	1988	REPLACEMENT	NO
11) MAIN STM RELIEF VALVE (STUDS)	CROSBY	N63790-00-0087 (VALVE)	N/A	PSV 241F013C	1981	REPLACED	YES
12) MAIN STM RELIEF VALVE (3 STUDS)	ALLIED	Ht # M62255	N/A	PSV 241F013C	1996	REPLACEMENT	NO
13) MAIN STM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0087(VALVE)	N/A	PSV 241F013C	1981	REPLACED	YES
14) MAIN STM RELIEF VALVE (DISC INSERT)	CROSBY	N93185-62-0272	N/A	PSV 241F013C	1996	REPLACEMENT	YES
15) MAIN STM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0087 (VALVE)	N/A	PSV 241F013C	1981	REPLACED	YES
16) MAIN STM RELIEF VALVE (NOZZLE)	CROSBY	N93184-39-0071	N/A	PSV 241F013C	1988	REPLACEMENT	NO
17) MAIN STM RELIEF VALVE (STUDS)	CROSBY	N63790-00-0022 (VALVE)	N/A	PSV 241F013B	1980	REPLACED	YES
18) MAIN STM RELIEF VALVE (9 STUDS)	ALLIED	Ht # M62255	N/A	PSV 241F013B	1996	REPLACEMENT	NO

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

1. Owner PP&L Inc. (Name) Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) MAIN STM RELIEF VALVE (DUAL DIA STUD)	CROSBY	N63790-00-0022 (VALVE)	N/A	PSV 241F013B	1980	REPLACED	YES
20) MAIN STM RELIEF VALVE (1 DUAL DIA STUD)	ALLIED	Ht # M57715	N/A	PSV 241F013B	1996	REPLACEMENT	NO
21) MAIN STM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0022 (VALVE)	N/A	PSV 241F013B	1980	REPLACED	YES
22) MAIN STM RELIEF VALVE (DISC INSERT)	CROSBY	N93185-62-0274	N/A	PSV 241F013B	1996	REPLACEMENT	YES
23) MAIN STM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0022 (VALVE)	N/A	PSV 241F013B	1980	REPLACED	YES
24) MAIN STM RELIEF VALVE (NOZZLE)	CROSBY	N93184-34-0018	N/A	PSV 241F013B	1988	REPLACEMENT	YES
25) MAIN STM RELIEF VALVE (STUDS)	CROSBY	N63790-00-0131 (VALVE)	N/A	PSV 241F013G	1982	REPLACED	YES
26) MAIN STM RELIEF VALVE (7 STUDS)	CROSBY	HT # M62255	N/A	PSV 241F013G	1996	REPLACEMENT	NO
27) MAIN STM RELIEF VALVE (STUDS)	CROSBY	N63790-00-0083 (VALVE)	N/A	PSV 241F013D	1981	REPLACED	YES
28) MAIN STM RELIEF VALVE (8 STUDS)	ALLIED	Ht # M62255	N/A	PSV 241F013D	1996	REPLACEMENT	NO
29) MAIN STM RELIEF VALVE (STUDS)	CROSBY	N63790-00-0081(VALVE)	N/A	PSV 241F013M	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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, CLASS I.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 * (* SEE PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) MAIN STM RELIEF VALVE (5 STUDS)	ALLIED	HT # 62255	N/A	PSV 241F013M	1996	REPLACEMENT	NO
31) MAIN STM RELIEF VALVE (DUAL DIA STUDS)	CROSBY	N63790-00-0081(VALVE)	N/A	PSV 241F013M	1982	REPLACED	YES
32) MAIN STM RELIEF VALVE (2 DUAL DIA STUDS)	CROSBY	HT # M57715	N/A	PSV 241F013M	1996	REPLACEMENT	NO
33) MAIN STM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0081(VALVE)	N/A	PSV 241F013M	1982	REPLACED	YES
34) MAIN STM RELIEF VALVE (SPINDLE)	CROSBY	K82137-31-0003	N/A	PSV 241F013M	1993	REPLACEMENT	YES
35) MAIN STM RELIEF VALVE (BUTTON)	CROSBY	N63790-00-0081(VALVE)	N/A	PSV 241F013M	1982	REPLACED	YES
36) MAIN STM RELIEF VALVE (BUTTON)	CROSBY	K76731-31-0002	N/A	PSV 241F013M	1991	REPLACEMENT	YES
37) CONTROL ROD DRIVE	GE	5138	N/A	02-43 (Core Loc.)	1984	REPLACED	YES
38) CONTROL ROD DRIVE	GE	8610	N/A	02-43 (Core Loc.)	1981	REPLACEMENT	YES
39) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	02-43 (Core Loc.)	1981	REPLACED	NO
40) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	02-43 (Core Loc.)	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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, CLASS I.

5. (a) Applicable Construction Code . ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 * (* SEE PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE	GE	A4348	N/A	06-27 (Core Loc.)	1981	REPLACED	YES
42) CONTROL ROD DRIVE	GE	A4561	N/A	06-27 (Core Loc.)	1981	REPLACEMENT	YES
43) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	06-27 (Core Loc.)	1981	REPLACED	NO
44) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	06-27 (Core Loc.)	1999	REPLACEMENT	NO
45) CONTROL ROD DRIVE	GE	A5622	N/A	06-39 (Core Loc.)	1981	REPLACED	YES
46) CONTROL ROD DRIVE	GE	A5501	N/A	06-39 (Core Loc.)	1981	REPLACEMENT	YES
47) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	06-39 (Core Loc.)	1981	REPLACED	NO
48) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	06-39 (Core Loc.)	1999	REPLACEMENT	NO
49) CONTROL ROD DRIVE	GE	A4487	N/A	14-31 (Core Loc.)	1981	REPLACED	YES
50) CONTROL ROD DRIVE	GE	A4675	N/A	14-31 (Core Loc.)	1981	REPLACEMENT	YES
51) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	14-31 (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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 6 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE (8 BOLTS)	NOVA	HT # 52613	N/A	14-31 (Core Loc.)	1994	REPLACEMENT	NO
53) CONTROL ROD DRIVE	GE	A5349	N/A	14-43 (Core Loc.)	1981	REPLACED	YES
54) CONTROL ROD DRIVE	GE	A9513	N/A	14-43 (Core Loc.)	1997	REPLACEMENT	YES
55) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	14-43 (Core Loc.)	1981	REPLACED	NO
56) CONTROL ROD DRIVE (8 BOLTS)	NOVA	HT # 52613	N/A	14-43 (Core Loc.)	1994	REPLACEMENT	NO
57) CONTROL ROD DRIVE	GE	A2191	N/A	18-51 (Core Loc.)	1981	REPLACED	YES
58) CONTROL ROD DRIVE	GE	A4560	N/A	18-51 (Core Loc.)	1981	REPLACEMENT	YES
59) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	18-51 (Core Loc.)	1981	REPLACED	NO
60) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	18-51 (Core Loc.)	1999	REPLACEMENT	NO
61) CONTROL ROD DRIVE	GE	A8961	N/A	22-47 (Core Loc.)	1981	REPLACED	YES
62) CONTROL ROD DRIVE	GE	A4212	N/A	22-47 (Core Loc.)	1981	REPLACEMENT	YES

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

1. Owner PP&L Inc. (Name) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 7 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, CLASS I.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 * (* SEE PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-47 (Core Loc.)	1981	REPLACED	NO
64) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	22-47 (Core Loc.)	1999	REPLACEMENT	NO
65) CONTROL ROD DRIVE	GE	9453	N/A	26-43 (Core Loc.)	1984	REPLACED	YES
66) CONTROL ROD DRIVE	GE	A4142	N/A	26-43 (Core Loc.)	1981	REPLACEMENT	YES
67) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	26-43 (Core Loc.)	1981	REPLACED	NO
68) CONTROL ROD DRIVE (8 BOLTS TOTAL)	ALLIED NOVA	HT # 8079012 HT # 52613	N/A	26-43 (Core Loc.)	1997 1996	REPLACEMENT	NO
69) CONTROL ROD DRIVE	GE	A5606	N/A	26-47 (Core Loc.)	1981	REPLACED	YES
70) CONTROL ROD DRIVE	GE	5471	N/A	26-47 (Core Loc.)	1981	REPLACEMENT	YES
71) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	26-47 (Core Loc.)	1981	REPLACED	NO
72) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	26-47 (Core Loc.)	1999	REPLACEMENT	NO
73) CONTROL ROD DRIVE	GE	A4725	N/A	30-43 (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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 8 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE	GE	A5542	N/A	30-43 (Core Loc.)	1981	REPLACEMENT	YES
75) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	30-43 (Core Loc.)	1981	REPLACED	NO
76) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	30-43 (Core Loc.)	1999	REPLACEMENT	NO
77) CONTROL ROD DRIVE	GE	A4527	N/A	34-23 (Core Loc.)	1981	REPLACED	YES
78) CONTROL ROD DRIVE	GE	A5652	N/A	34-23 (Core Loc.)	1981	REPLACEMENT	YES
79) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	34-23 (Core Loc.)	1981	REPLACED	NO
80) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	34-23 (Core Loc.)	1999	REPLACEMENT	NO
81) CONTROL ROD DRIVE	GE	9399	N/A	34-31 (Core Loc.)	1984	REPLACED	YES
82) CONTROL ROD DRIVE	GE	8281	N/A	34-31 (Core Loc.)	1978	REPLACEMENT	YES
83) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	34-31 (Core Loc.)	1981	REPLACED	NO
84) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	34-31 (Core Loc.)	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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 9 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE	GE	A5485	N/A	34-51 (Core Loc.)	1981	REPLACED	YES
86) CONTROL ROD DRIVE	GE	7721	N/A	34-51 (Core Loc.)	1978	REPLACEMENT	YES
87) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	34-51 (Core Loc.)	1981	REPLACED	NO
88) CONTROL ROD DRIVE (8 BOLTS)	VITCO	HT # 99896	N/A	34-51 (Core Loc.)	1994	REPLACEMENT	NO
89) CONTROL ROD DRIVE	GE	A2297	N/A	38-15 (Core Loc.)	1981	REPLACED	YES
90) CONTROL ROD DRIVE	GE	A5492	N/A	38-15 (Core Loc.)	1981	REPLACEMENT	YES
91) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	38-15 (Core Loc.)	1981	REPLACED	NO
92) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	38-15 (Core Loc.)	1999	REPLACEMENT	NO
93) CONTROL ROD DRIVE	GE	7849	N/A	38-31 (Core Loc.)	1978	REPLACED	YES
94) CONTROL ROD DRIVE	GE	8514	N/A	38-31 (Core Loc.)	1978	REPLACEMENT	YES
95) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	38-31 (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) Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 10 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) SEE ATTACHED LIST (Repair Organizaton 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 REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	38-31 (Core Loc.)	1999	REPLACEMENT	NO
97) CONTROL ROD DRIVE	GE	A4480	N/A	38-43 (Core Loc.)	1981	REPLACED	YES
98) CONTROL ROD DRIVE	GE	A4617	N/A	38-43 (Core Loc.)	1981	REPLACEMENT	YES
99) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	38-43 (Core Loc.)	1981	REPLACED	NO
100) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	38-43 (Core Loc.)	1999	REPLACEMENT	NO
101) CONTROL ROD DRIVE	GE	5270	N/A	42-11 (Core Loc.)	1984	REPLACED	YES
102) CONTROL ROD DRIVE	GE	A5613	N/A	42-11 (Core Loc.)	1981	REPLACEMENT	YES
103) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-11 (Core Loc.)	1981	REPLACED	NO
104) CONTROL ROD DRIVE (8 BOLTS)	ALLIED	HT # 8079012	N/A	42-11 (Core Loc.)	1997	REPLACEMENT	NO
105) CONTROL ROD DRIVE	GE	A3579	N/A	42-19 (Core Loc.)	1981	REPLACED	YES
106) CONTROL ROD DRIVE	GE	A5458	N/A	42-19 (Core Loc.)	1981	REPLACEMENT	YES

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

1. Owner PP&L Inc. (Name) Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 11 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-19 (Core Loc.)	1981	REPLACED	NO
108) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	42-19 (Core Loc.)	1999	REPLACEMENT	NO
109) CONTROL ROD DRIVE	GE	A4574	N/A	42-23 (Core Loc.)	1981	REPLACED	YES
110) CONTROL ROD DRIVE	GE	A4451	N/A	42-23 (Core Loc.)	1981	REPLACEMENT	YES
111) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-23 (Core Loc.)	1981	REPLACED	NO
112) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	42-23 (Core Loc.)	1999	REPLACEMENT	NO
113) CONTROL ROD DRIVE	GE	9525	N/A	42-47 (Core Loc.)	1984	REPLACED	YES
114) CONTROL ROD DRIVE	GE	A4161	N/A	42-47 (Core Loc.)	1981	REPLACEMENT	YES
115) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-47 (Core Loc.)	1981	REPLACED	NO
116) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	42-47 (Core Loc.)	1999	REPLACEMENT	NO
117) CONTROL ROD DRIVE	GE	8282	N/A	46-55 (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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 12 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, CLASS I.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A * Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 * (* SEE PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) CONTROL ROD DRIVE	GE	A9404	N/A	46-55 (Core Loc.)	1997	REPLACEMENT	YES
119) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	46-55 (Core Loc.)	1981	REPLACED	NO
120) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	46-55 (Core Loc.)	1999	REPLACEMENT	NO
121) CONTROL ROD DRIVE	GE	A5644	N/A	50-31 (Core Loc.)	1981	REPLACED	YES
122) CONTROL ROD DRIVE	GE	A4703	N/A	50-31 (Core Loc.)	1981	REPLACEMENT	YES
123) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	50-31 (Core Loc.)	1981	REPLACED	NO
124) CONTROL ROD DRIVE (8 BOLTS)	ALLIED	HT # 8079012	N/A	50-31 (Core Loc.)	1997	REPLACEMENT	NO
125) CONTROL ROD DRIVE	GE	A5258	N/A	50-43 (Core Loc.)	1981	REPLACED	YES
126) CONTROL ROD DRIVE	GE	7739	N/A	50-43 (Core Loc.)	1978	REPLACEMENT	YES
127) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	50-43 (Core Loc.)	1981	REPLACED	NO
128) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	50-43 (Core Loc.)	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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 13 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
129) CONTROL ROD DRIVE	GE	9351	N/A	58-39 (Core Loc.)	1978	REPLACED	YES
130) CONTROL ROD DRIVE	GE	5109	N/A	58-39 (Core Loc.)	1981	REPLACEMENT	YES
131) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	58-39 (Core Loc.)	1981	REPLACED	NO
132) CONTROL ROD DRIVE (8 BOLTS)	ACCUTECH	HT # 60103	N/A	58-39 (Core Loc.)	1999	REPLACEMENT	NO
133) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DBA-212-1 FLG # M-1	1983	REPLACED	YES
134) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DBA-212-1 FLG # M-1	1999	REPLACEMENT	NO
135) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DCA-211-3 FLG # M-1	1983	REPLACED	YES
136) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DCA-211-3 FLG # M-1	1999	REPLACEMENT	NO
137) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DCA-211-3 FLG # M-2	1983	REPLACED	YES
138) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DCA-211-3 FLG # M-2	1999	REPLACEMENT	NO
139) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DBA-212-2 ITEM # 8 & 9	1983	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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 14 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, CLASS I.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W'72 Addenda, N/A * 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)
140) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DBA-212-2 ITEM # 8 & 9	1999	REPLACEMENT	NO
141) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DBA-212-2 ITEM # 10 & 11	1983	REPLACED	YES
142) LARGE PIPE SUBASSEMBLY	PP&L	HT CD # Q36	N/A	DBA-212-2 ITEM # 10 & 11	1999	REPLACEMENT	NO
143) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0023 (VALVE)	N/A	PSV 241F013B	1980	REPLACED	YES
144) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N93185-58-0259	N/A	PSV 241F013B	1987	REPLACEMENT	YES
145) MAIN STEAM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0023 (VALVE)	N/A	PSV 241F013B	1980	REPAIRED	YES
146) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0022	N/A	PSV 241F013B	1980	REPLACED	YES
147) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0023	N/A	PSV 241F013B	1980	REPLACEMENT	YES
148) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0023 (VALVE)	N/A	PSV 241F013B	1980	REPLACED	YES
149) MAIN STEAM RELIEF VALVE (12 NUTS)	WALKER	HT CD # M57	N/A	PSV 241F013B	1997	REPLACEMENT	NO
150) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0029	N/A	PSV 241F013F	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) Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 15 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
151) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0024	N/A	PSV 241F013F	1980	REPLACEMENT	YES
152) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0092	N/A	PSV 241F013H	1983	REPLACED	YES
153) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0026	N/A	PSV 241F013H	1980	REPLACEMENT	YES
154) MAIN STEAM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0025 (VALVE)	N/A	PSV 241F013K	1980	REPAIRED	YES
155) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0094	N/A	PSV 241F013K	1981	REPLACED	YES
156) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0025	N/A	PSV 241F013K	1980	REPLACEMENT	YES
157) MAIN STEAM RELIEF VALVE (DUAL DIA STUD)	CROSBY	N63790-00-0031 (VALVE)	N/A	PSV 241F013L	1980	REPLACED	YES
158) MAIN STEAM RELIEF VALVE (DUAL DIA STUD)	ALLIED	HT CD # Y70	N/A	PSV 241F013L	1996	REPLACEMENT	NO
159) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0019	N/A	PSV 241F013L	1980	REPLACED	YES
160) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0031	N/A	PSV 241F013L	1980	REPLACEMENT	YES
161) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0086	N/A	PSV 241F013N	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) Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 16 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
162) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0033	N/A	PSV 241F013N	1980	REPLACEMENT	YES
163) MAIN STEAM RELIEF VALVE (HELI-COIL)	CROSBY	N63790-00-0082 (VALVE) HT # A2973H HELICOIL	N/A	PSV 241F013R	1982	REPAIRED	YES
164) MAIN STEAM RELIEF VALVE (INLET STUD)	CROSBY	N63790-00-0082 (VALVE)	N/A	PSV 241F013R	1982	REPLACED	YES
165) MAIN STEAM RELIEF VALVE (1 DUAL DIA STUD)	ALLIED	HT CD # Y70	N/A	PSV 241F013R	1996	REPLACEMENT	NO
166) MAIN STEAM RELIEF VALVE (INLET STUD)	CROSBY	N63790-00-0082 (VALVE)	N/A	PSV 241F013R	1982	REPLACED	YES
167) MAIN STEAM RELIEF VALVE (1 INLET STUD)	ALLIED	HT CD # A78	N/A	PSV 241F013R	1998	REPLACEMENT	NO
168) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0032	N/A	PSV 241F013R	1980	REPLACED	YES
169) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0082	N/A	PSV 241F013R	1982	REPLACEMENT	YES
170) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0082 (VALVE)	N/A	PSV 241F013R	1982	REPLACED	YES
171) MAIN STEAM RELIEF VALVE (12 NUTS)	WALKER	HT CD # M57	N/A	PSV 241F013R	1997	REPLACEMENT	NO

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

1. Owner PP&L Inc. (Name) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 17 of 23

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

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. Indentification of System REACTOR VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
172) MAIN STEAM RELIEF VALVE (2 DUAL DIA STUD)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 241F013S	1982	REPLACED	YES
173) MAIN STEAM RELIEF VALVE (INLET STUDS)	ALLIED	HT CD # N8	N/A	PSV 241F013S	1995	REPLACEMENT	NO
174) MAIN STEAM RELIEF VALVE (INLET STUD)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 241F013S	1982	REPLACED	YES
175) MAIN STEAM RELIEF VALVE (1 INLET STUD)	ALLIED	HT CD # A78	N/A	PSV 241F013S	1998	REPLACEMENT	NO
176) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0130	N/A	PSV 241F013S	1982	REPLACED	YES
177) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0088	N/A	PSV 241F013S	1981	REPLACEMENT	YES
178) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 241F013S	1981	REPLACED	YES
179) MAIN STEAM RELIEF VALVE (12 NUTS)	WALKER	HT CD # M57	N/A	PSV 241F013S	1997	REPLACEMENT	NO
180) PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-245-H2613	1983	REPLACED	NO
181) PIPE SUPPORT	PP&L	N/A	N/A	DCA-245-H2613	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) — Date 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 18 of 23

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

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 VESSEL AND AUX SYSTEM, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
182) VALVE	ATWOOD & MORRILL	14-221	N/A	HV241F028D	1974	REPAIR	YES
183) PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-211-H6	1983	REPAIR	NO
184) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DCA-245-3	1983	REPLACED	YES
185) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DCA-245-3	1998	REPLACEMENT	NO
186) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DCA-245-6	1983	REPLACED	YES
187) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DCA-245-6	1999	REPLACEMENT	NO
188) REACTOR VENT NOZZLE	CB&I	68-3332-32	N/A	2S401 N007	1973	REPAIRED	YES
189) PIPE FLANGE	BECHTEL	N/A	N/A	DBA-212-1 FLG # M-1	1983	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 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 19 of 23

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

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. Indentification of System REACTOR VESSEL, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH.	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	H60356	97-162-001	PSV 241F013L, REPLACED 7 INLET STUDS	VT-1 for inlet bolting, VT-2 PER W/A # H50045 previously reported.
3-4	H60356	97-162-002	PSV 241F013H, REPLACED 7 INLET STUDS	VT-1 for inlet bolting, VT-2 PER W/A # H70053 previously reported.
5-10	H60356	97-162-003	PSV 241F013E, REPLACED 7 INLET STUDS, DISC INSERT & NOZZLE	VT-1 for inlet bolting, VT-2 PER W/A # H60398 previously reported.
11-16	H60356	97-162-004	PSV 241F013C, REPLACED 3 INLET STUDS, DISC INSERT & NOZZLE	VT-1 for inlet bolting, VT-2 PER W/A # H60397 previously reported.
17-24	H60356	97-162-005	PSV 241F013B, REPLACED 3 INLET STUDS, DISC INSERT & NOZZLE	VT-1 for inlet bolting, VT-2 PER W/A # H50041 previously reported.
25-26	H60356	97-162-006	PSV 241F013G, REPLACED 7 INLET STUDS	VT-1 for inlet bolting, VT-2 PER W/A # H70052 previously reported.
27-28	H60356	97-162-007	PSV 241F013D, REPLACED 8 INLET STUDS	VT-1 for inlet bolting, VT-2 PER W/A # H50042 previously reported.
29-36	H60356	97-162-008	PSV 241F013M, REPLACED 5 INLET STUDS, 2 DUAL DIA STUDS, SPINDLE AND BUTTON	VT-1 for inlet bolting, VT-2 PER W/A # H60399 previously reported.
37-40	H80197	98-262-001	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 02-43	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
41-44	H80135	98-262-002	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 06-27	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
45-48	H80137	98-262-003	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 06-39	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
49-52	H80146	98-262-004	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 14-31	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
53-56	H80166	98-262-005	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 14-43	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
57-60	H80139	98-262-006	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 18-51	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
61-64	H80236	98-262-007	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-47	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
65-68	H80160	98-262-008	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 26-43	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
69-72	H80175	98-262-009	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 26-47	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
73-76	H80151	98-262-010	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 30-43	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 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 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 20 of 23

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

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. Indentification of System REACTOR VESSEL, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH.	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
77-80	H80149	98-262-011	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 34-23	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
81-84	H80140	98-262-012	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 34-31	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
85-88	H80141	98-262-013	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 34-51	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
89-92	H80142	98-262-014	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 38-15	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
93-96	V90693	98-262-015	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 38-31	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
97-100	H80164	98-262-016	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 38-43	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
101-104	H80147	98-262-017	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-11	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
105-108	H80144	98-262-018	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-19	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
109-112	H80145	98-262-019	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-23	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
113-116	H80161	98-262-020	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-47	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
117-120	H80150	98-262-021	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 46-55	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
121-124	H80162	98-262-022	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 50-31	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
125-128	H80198	98-262-023	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 50-43	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
129-132	H80196	98-262-024	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 58-39	VT-1 CAP SCREWS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
133-134	H80265	98-262-025	DBA-212-1, FLANGE M-1 REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
135-136	H80265	98-262-026	DCA-211-3, FLANGE M-1 REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
137-138	H80265	98-262-027	DCA-211-3, FLANGE M-2 REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 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 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 21 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 VESSEL, 262A, CLASS I.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 * (* SEE PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH.	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
139-140	H80265	98-262-028	DBA-212-2, IT # 8 & 9, REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
141-142	H80265	98-262-029	DBA-212-2, IT # 10 & 11, REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
143-145	H80384	99-162-002	PSV 241F013B, REPLACED RELIEF VLV DISC INSERT AND REPAIRED NOZZLE	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/A # H80640
147-149	H80640	98-262-031	PSV 241F013B, REPLACED RELIEF VALVE AND BOLTS	VT-1 NUTS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
150-151	H80641	98-262-032	PSV 241F013F, REPLACED RELIEF VALVE	V-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
152-153	H80642	98-262-033	PSV 241F013H, REPLACED RELIEF VALVE	VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
154	H80384	99-162-004	PSV 241F013K, REPAIRED RELIEF VLV NOZZLE BY MACHINING	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/A # H80643
155-156	H80643	98-262-034	PSV 241F013K, REPLACED RELIEF VALVE	VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
157-158	H80384	99-162-006	PSV 241F013L, REPLACED INLET STUD, DUAL DIAMETER	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/A # H80644
159-160	H80644	98-262-035	PSV 241F013L, REPLACED RELIEF VALVE	VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
161-162	H80645	98-262-036	PSV 241F013N, REPLACED RELIEF VALVE	VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
163-167	H80384	99-162-008	PSV 241F013R, REPLAIRED BOLT HOLE BY INSTALLING A HELICOIL INSERT AND REPLACED 2 INLET STUDS	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/A # H80646
168-171	H80646	98-262-037	PSV 241F013R, REPLACED RELIEF VALVE & NUTS	VT-1 NUTS, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
172-175	H80384	99-162-009	PSV 241F013S, REPLACED 3 INLET STUDS, DISC INSERT & NOZZLE	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/A # H80647
176-179	H80647	98-262-038	PSV 241F013S, REPLACED RELIEF VALVE & NUTS	VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
180-181	V63070	99-262-001	DCA-245-H2613, REPLACED PIPE SUPPORT SPRING CAN AND ROD	VT-3 PER NVT-3
182	H80678	99-262-010	HV241F028D, REMOVED SEAL WELD	VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 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 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 22 of 23

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System REACTOR VESSEL, 262A, 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 PAGE 23)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH.	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
183	V90550	99-262-011	DBA-211-H6, ABR-2885, REPAIRED TRAVEL STOP BY TRIMMING	VT-3 SUPPORT SCALE/CASING
184-185	H80265	99-262-012	DCA-245-3, IT # 5 & 15, # 7 & 16 REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
186-187	H80265	99-262-013	DBA-245-6, IT # 5 & 6, # 7 & 8 REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
188	V90832	99-262-014	2S401, REPAIRED REACTOR VESSEL VENT NOZZLE BY MACHINING	VT-1 FLANGE FACE, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 PSIG
189	V90832	99-262-015	DBA-212-1 FLANGE M-1, REPAIRED FLANGE BY MACHINING	VT-1 FLANGE FACE, VT-2 PER SE-200-002 TEMP 160°/PRESS 1054 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 7/10/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 23 of 23

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

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. Indentification of System REACTOR VESSEL, 262A, 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 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 PREFERENCE	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; Disc Inserts, Spindle Ball, And Button	Replacement Code is ASME Section III, 1971 Edition NO 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
GE, Control Rod Drives Year Built 1997 (NEW INSTALLATION)	ASME Section III, 1974 Ed. Winter '75 Add. Code Case 1361-2
ATWOOD & MORREL, HV241F028D	ASME Section III, 1971 Ed. Summer '71 Add. Code Case 1535-2
CB&I, Reactor Vessel Vent Nozzle, N007 (REPAIR)	ASME Section III, 1968 Ed. Winter '70 Add. Code Case 1361

SUPPLEMENT 5 (b)

REPAIR ACTIVITY	CODE CASE
Crosby Valve & Gage Co. MSRV Valve ITEM # 183	N-496-1

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. 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 (Material Spec No.) REMARKS (Tensile Strength)

6. --- Dia. ID --- Length Overall Nom. Thickness(in.) -- Inch Min. Design Thickness -- Inch

7. --- Design Pressure(PSI) --- °F Temperature

Hydrostatic Test (psig) 2370 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: 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.

Date 27 June 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* 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.

Signed [signature] Commissions MA-1418
(Inspector) (Nat'l. Bd., State, Prov. and No.)

*Factory Mutual Systems

CROSBY

CROSBY VALVE & GAGE COMPANY

WRENTHAM, MASS

Q.C.-302
Form N-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

Pg 1 of 1

Manufactured and certified by Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
(name and address of certificate holder)

Manufactured for Pennsylvania Power & Light Co. Allentown PA 18101
(name and address of purchaser)

Location of installation Susquehanna SES Storeroom 5 MI NE of Berwick ON US RT 11 ,Berwick PA 18603
(name and address)

Type DS-A-63790	ASME SA193 Gr.B6	140,650	—	1991
(drawing no.)	(mat'l spec no.)	(tensile strength)		(year built)

ASME Code, Section III 1971	NO	1	—
(edition)	(addenda)	(class)	(Code Case no.)

Fabricated in accordance with Const. Spec. (Div. 2 only) — (No.) Revision — Date —

Remarks:

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

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) K76731-31-0001		(26)	
(2) K76731-31-0002		(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. 9 IN RECORD PACKAGE
PAGE 13 OF 73

Design pressure — psi Temp. — °F. Hydro. test pressure — at temp. — °F.
(when applicable)

Form K-2

Mfr. Serial No. K76731-31-0001+000

CERTIFICATION OF DESIGN

Design specification certified by C.T.Nieh P.E. state CA Reg. No. 15587
(when applicable)

Design report certified by W.D.Greenlaw P.E. state MA Reg. No. 14784
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1877 Expires 9/30/92

Date 11-5-91 Name Crosby Valve & Gage Co. Signed Lawrence Hill
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of Massachusetts and employed by *See Below of Norwood, MA have inspected these items described in this data report on Nov 5- 1991 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the data shown above.

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

Factory Mutual System

Date 11-5-91 Signed [signature] Commission MA 1207
(Authorized Inspector) (Nat'l Bd (incl. endorsements) state or prov. and no.)

*Arkwright Mutual Insurance Company

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., 2 NO. 9TH ST., ALLENTOWN, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation PENN POWER & LIGHT CO., SUSQUEHANNA SES STRM., BERWICK, PA 18603
(Name and Address)

4. --- (CRN) DS-A-63790 REV. E (Drawing No.) 1993 (Year Built)

5. ASTM A 564 TYPE 630* (Material Spec No.) 174,000 (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) --- Revision --- Date ---
(No.)

9. ASME Code, Section III, Division 1: 1971 (Edition) NO (Addenda Date) 1 (Class) --- (Code Case No.)

10. Remarks *SPINDLE BALL- MAT'L. ASTM A276 TYPE 440C

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)	K82137-31-0001		(11)		
(2)	K82137-31-0002		(12)		
(3)	K82137-31-0003		(13)		
(4)	K82137-31-0004		(14)		
(5)			(15)		
(6)			(16)		
(7)			(17)		
(8)			(18)		
(9)			(19)		
(10)			(20)		

Manufacturer Serial No. K82137-31-0001

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) SPINDLE ASSY conform to the rules of construction of the ASME Code, Section III.

Date 3 Dec 93 Signed Crosby Valve & Gage Company (NptCertificate Holder) by (Authorized Representative)

NV Certificate of Authorization No. N-1877 Expires 30 SEP 95 (Date)

CERTIFICATE OF DESIGN

Design specification certified by* C. T. NIEH
PE State CA Reg No. 15587
Design Report Certified by* W. D. GREENLAW
PE State MA Reg No. 14784

*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 * Arkwright Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on Dec 3, 19 93 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 wit.. this inspection.

Factory Mutual Systems

Date 12/3, 1993.

Signed (Inspector) Commissions MA 1455 (Nat'l. Bd., State, Prov. and No.)

*Factory Mutual System

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS.

QC-70B-5

CROSBY FACTORY ORDER NO. N9611000

CROSBY ITEM NO. 001

CUSTOMER ORDER NO. 8-46021-1

CUSTOMER ITEM NO. 001

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) N93184-40-0093,0094,0095 & -39-0071, 0091 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.

No. 88-7202
RECORD PACKAGE
PAGE 4 OF 38

Crosby QA Records Specialist

November 30, 1988
Date

8903020227 ... 6

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. I

1. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
3901 Castle Hayne Road, Wilmington, North Carolina 28401
(Name and Address of NPT Certificate Holder)

(b) Manufactured for : Susquehanna 1 Berwick, Pennsylvania 18603
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A9513 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 761E387G013 Rev 22 Dwg. Prepared by J. L. Trovato

(b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144EG003

(c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. 1361-2 Class 1

3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1820 psi, min.
(Brief description of service for which component was designed)

Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification 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: 03/27/97 Signed GE-NE By
(NPT Certificate Holder) (ISC QA Representive)

Certificate of Authorization Expires: 6/16/99 Certification of Authorization No. : NPT N-1151

Certification of Design for Appurtenance

Design information on file at GE Company, San Jose, California

Stress analysis report on file at GE Company, San Jose, California

DC22A6253 Rev. 2
Design specification certified by B.N. Sridhar Prof. Eng. State Calif. Reg. No. 18345

DC22A6254 Rev 1
Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. M018646

Certification of Shop Inspection

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 3/16, 1997, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

3/27, 1997 Inspector's Signature NC 1231, Ohio, WC 3686 PA
Date National Board, State, Province And No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 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".

(07/96)

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

FORM H-2 (back)

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

4. Shell: Material _____ T.S. _____ Nominal Thickness ___ in. Corrosion Allowance ___ in. Dia. ___ ft. ___ in. Length ___ ft. ___ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T. _____ R.T. _____ Efficiency _____%
Girth _____ H.T. _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

	Location (Top Bottom, Ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv. or conc.)
(a)									
(b)									

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

7. Jacket Closure: _____
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)
Drop Weight _____
Charpy Impact _____ ft-lb

8. Design pressure[2] 1250 psi at 575 °F 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 _____ T.S. _____ Nominal Thickness ___ in. Corrosion Allowance ___ in. Dia. ___ ft. ___ in. Length ___ ft. ___ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T. _____ R.T. _____ Efficiency _____%
Girth _____ H.T. _____ 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)
Drop Weight _____
Charpy Impact _____ ft-lb

14. Design pressure[2] _____ psi at _____ °F 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 _____

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 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. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
   3901 Castle Hayne Road, Wilmington, North Carolina 28401
   (Name and Address of NPT Certificate Holder)

   (b) Manufactured for : Susquehanna 1 Berwick, Pennsylvania 18603
   (Name and Address of N Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A9513 Nat'l Bd. No. N/A

   (a) Constructed According to Drawing No: 761E387G013 Rev 22 Dwg. Prepared by J.L. Trovato

   (b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144EG003

   (c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. 1361-2 Class 1

3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. min.
   (Brief description of service for which component was designed)

Sheet 2 of 2

1. Cap 166B9274P001
   SA182 - F316
   3/8" thick x 1 1/16" OD

2. Indicator Tube 167B4908P001
   SA312 - TP316
   3/4" sch 40 - seamless pipe
   0.113" wall thickness
   1.065" max. dia.

3. Plug 159A1176P001
   SA182 - F304
   1/4" thick x 0.812" OD

4. Flange 919D610P001 (719E474)
   SA182 - F304
   3.37" thick x 9 5/8" OD

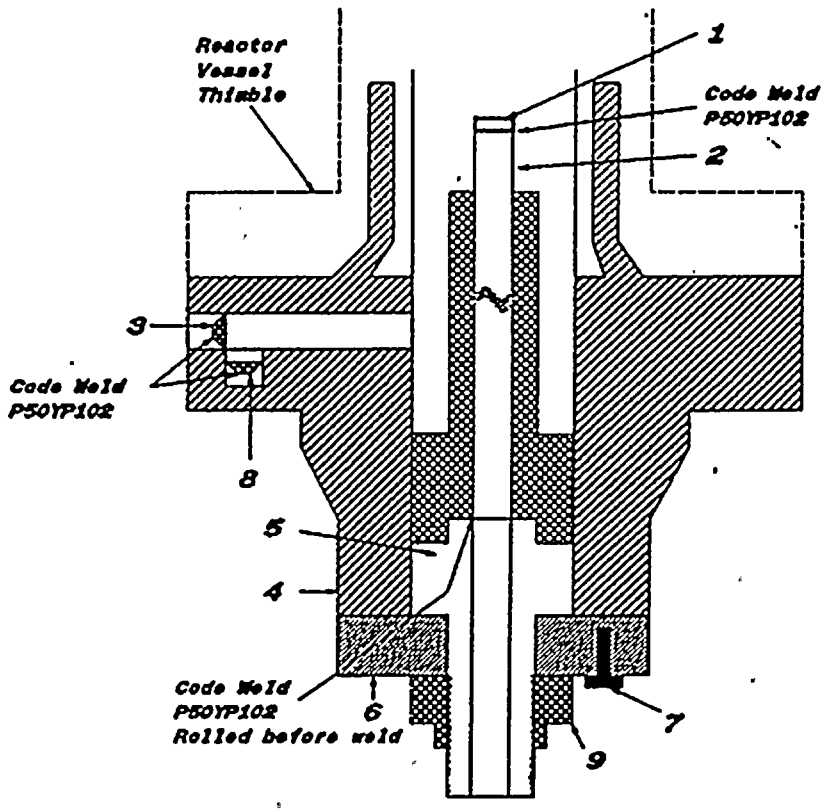
5. Head 129B3539P005
   SA182 - F304
   7/8" thick x 2.875" dia.

6. Ring Flange 114B5122P002
   SA182 - F304
   1" thick x 5.0" OD x 1.75" ID

7. Cap Screw 117C4516P002
   SA193 - B8
   6 ea. 1/2" dia. on 4 1/8" bolt circle

8. Plug 175A7961P001
   SA182 - F304
   0.38" thick x 1.307" dia.

9. Nut 114B5460P001
   XM - 19 SA479
   1.30" thick x 2.62" dia.



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. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
   3901 Castle Hayne Road, Wilmington, North Carolina 28401
   (Name and Address of NPT Certificate Holder)

   (b) Manufactured for : Susquehanna 1 Berwick, Pennsylvania 18603
   (Name and Address of N Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A9404 Nat'l Bd. No. N/A

   (a) Constructed According to Drawing No: 761E387G013 Rev 22 Dwg. Prepared by J. L. Trovato

   (b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144EG003

   (c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W'75 , Case No. 1361-2 Class 1

3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1820 psi. min.
   (Brief description of service for which component was designed)

Sheet 1 of 2

We certify that the statements 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 Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification 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: 03/27/97 Signed GE-NE By
(NPT Certificate Holder) (ISC QA Representive)

Certificate of Authorization Expires: 6/16/99 Certification of Authorization No. : NPT N - 1151

Certification of Design for Appurtenance

Design information on file at GE Company, San Jose, California

Stress analysis report on file at GE Company, San Jose, California

DC22A6253 Rev. 2
Design specification certified by B.N. Sridhar Prof. Eng. State Calif. Reg. No. 18345

DC22A6254 Rev 1
Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. M018646

Certification of Shop Inspection

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 3/18, 1997, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

3/27, 1997	Jerome P Emm	NC 1231, Ohio, WC 3686 PA
Date	Inspector's Signature	National Board, State, Province And No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 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".

(07/90)

FORM N-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets 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	Concial Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (conv. or conc.)
(a)									
(b)									

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

7. Jacket Closure: _____ (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

Drop Weight _____
Charpy Impact _____ ft-lb

8. Design pressure[2] 1250 psi at 575 °F 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	Concial 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)

Drop Weight _____
Charpy Impact _____ ft-lb

14. Design pressure[2] _____ psi at _____ °F 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 _____

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 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. Manufactured & Certified by : General Electric Company Nuclear Energy (GE-NE)
   3901 Castle Hayne Road, Wilmington, North Carolina 28401
   (Name and Address of NPT Certificate Holder)

   (b) Manufactured for : Susquehanna 1 Berwick, Pennsylvania 18603
   (Name and Address of N Certificate Holder for completed nuclear component)

2. Identification - Certificate Holder's S/N of Part : A9404 Nat'l Bd. No. N/A

   (a) Constructed According to Drawing No: 761E387G013 Rev 22 Dwg. Prepared by J. L. Trovato

   (b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144EG003

   (c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. 1361-2 Class 1

3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1820 psi, min.
   (Brief description of service for which component was designed)

1. Cap 166B9274P001
   SA182 - F316
   3/8" thick x 1 1/16" OD

2. Indicator Tube 167B4908P001
   SA312 - TP316
   3/4" sch 40 - seamless pipe
   0.113" wall thickness
   1.065" max. dia.

3. Plug 159A1176P001
   SA182 - F304
   1/4" thick x 0.812" OD

4. Flange 919D610P001 (719E474)
   SA182 - F304
   3.37" thick x 9 5/8" OD

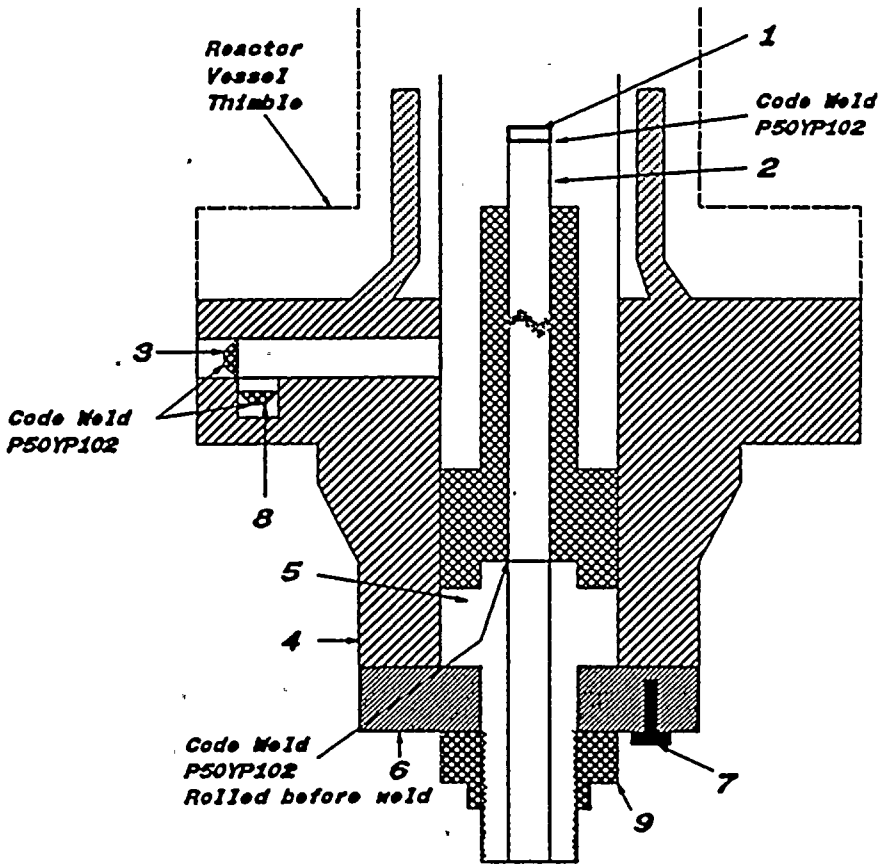
5. Head 129B3539P005
   SA182 - F304
   7/8" thick x 2.875" dia.

6. Ring Flange 114B5122P002
   SA182 - F304
   1" thick x 5.0" OD x 1.75" ID

7. Cap Screw 117C4516P002
   SA193 - B6
   6 ea. 1/2" dia. on 4 1/8" bolt circle

8. Plug 175A7961P001
   SA182 - F304
   0.38" thick x 1.307" dia.

9. Nut 114B5460P001
   XM - 19 SA479
   1.30" thick x 2.62" dia.



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 7/3/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System RECIRC. SEAL WATER INJECTION SYSTEM 264D, CLASS 2.

5. (a) Applicable Construction Code ASME SecIII * 19 74 Edition, thru W74 Addenda, N/A 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)
1) CHECK VALVE	BORG WARNER	11685	N/A	243F013A	1976	REPLACED	YES
2) CHECK VALVE	BORG WARNER	11678	N/A	243F013A	1976	REPLACEMENT	YES
3) CHECK VALVE	BORG WARNER	11678	N/A	243F013A	1976	REPLACED	YES
4) CHECK VALVE	BORG WARNER	11679	N/A	243F013A	1976	REPLACEMENT	YES
5) CHECK VALVE	BORG WARNER	11679	N/A	243F013A	1976	REPAIR	YES
6) CHECK VALVE	BORG WARNER	11679	N/A	243F013A	1976	REPLACED	YES
7) CHECK VALVE	BORG WARNER	11686	N/A	243F013A	1976	REPLACEMENT	YES

7. Description of Work SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE SHEET 3

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks MANUFACTURER'S DATA REPORTS ARE ATTACHED.
Applicable Manufacturer's Data Reports to be attached

BORG WARNER, S/N 11686 MODIFIED BY FLOWSERVE CORP, SEE ATTACHED QAS-14-1 FORM.

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT AND 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 July 19, 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 MARCH 26, 1999 to APRIL 7, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions: NB 7525 TBNA PA2479
National Board, State, Province, and Endorsements

Date July 14 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 PP&L Inc. (Name) Date 7/03/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System RECIRC. SEAL WATER INJECTION SYSTEM 264D, CLASS 2.

5. (a) Applicable Construction Code ASME Sec III * 19 74 Edition, Thru W74 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	V90663	243F013A, REPLACED VALVE	NON VT-2 PER MI-PS-008
3-4	V90799	243F013A, REPLACED VALVE	NON VT-2 PER MI-PS-008
5	V90799	243F013A, REPAIRED VALVE BY REMOVAL OF BONNET SEAL WELD AND SKIM CUT OF VALVE DISC	NON VT-2 PER MI-PS-008
6-7	V98675	243F013A, REPLACED VALVE WITH VALVE MODIFIED BY FLOWSERVE CORP.	NON VT-2 PER MI-PS-008

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Ave, Van Nuys, Ca. Order No. 46866
(Name & Address of Manufacturer)

2. Manufactured for Bechtel Power Corp., P.O. Box 384, Berwick, Pa. Order No. 8856-P-14-BC
(Name and Address)

3. Owner Pennsylvania Power and Light Company

4. Location of Plant Susquehanna Steam Electric Station, Berwick, Pa.

5. Pump or Valve Identification NV Division P/N 74750, 1 Inch Y Lift Check Valve, SS, 1500#.
Serial Numbers 11669 thru 11693 (25 valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 74750 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No.

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date Winter '74, Case No.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disk - Code 1E44	Stellite #6		
Casting - 71256	per NMS 71043	Rex Precision	
Machined - 71637		NV Division	
(b) Forgings			
Body - Code 1H27	SA182 F316		
Forging - 71214		Pacific Forge	
Machined - 71216-11		NV Division	
Bonnet - Code 1D77 & 1C97	SA182 F316	Armco Steel	
Forged Stock		Jorgensen Steel	
Machined - 71579		NV Division	

*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.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
(d)	Other Parts			

8. Hydrostatic test 5400 – 5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca

Stress analysis report on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.

Design specifications certified by John R. Schniedel (1) Prof. Eng. State Pa. Reg. No. 19870-E

Stress analysis report certified by S. T. Yamahara (1) Prof. Eng. State Ca. Reg. No. 23521

(1) Signature not required. List name only.

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

Date July 9 19 76 Signed Nuclear Valve Division of Borg Warner (Manufacturer) By [signature]

Certificate of Authorization No. 1254 expires October 27, 1978

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 California and employed by Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on July 9 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date July 9, 19 76.

[signature] (Inspector) Commissions Calif 1010 1943 (National Board, State, Province and No.)

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

FLOWSERVE CORP.

Williamsport; Pennsylvania

FORM QAS-14-1 SUPPLEMENTAL DATA REPORT FOR NUCLEAR VALVES OR PARTS

1. Work performed by Flowserve Corp. R-553P-1 (Shop Order No.)
   701 First Street, Williamsport, PA 17701
2. Owner Pennsylvania Power & Light Company, 2 North Ninth Street, Allentown, PA 18101-1179 (Name and Address)
3. Name of Nuclear Power Plant Susquehanna Steam Electric Station
4. Address of Nuclear Power Plant 5 Miles NE of Berwick on Rte 11, P. O. Box 467, Bewick, PA 18603
5. a. Identification of Component Repaired or Replacement Component Modified body on 1" – 1500# Y-Lift Check Valve
   b. Name of Manufacturer (If different from Line 1). Borg Warner Nuclear Valve Division
   c. Identifying Nos. 11686 (Mfr.'s Serial No.) N/A (Nat'l Bd. No.) N/A (Other) 1976 (Year Built)
6. Application Edition of Section III of ASME Code 19 74 Addenda Winter 74 Code Case N/A
7. Description of Work Modify Seal Welded Bonnet to Gasket Seal Design (Use of additional sheet(s) or sketch(es) is acceptable if properly identified)
   Reference Drawing 74750-1, Rev. A

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. S. Stannert (Authorized Representative of Repair Organization) Q.A. Engineer (Title)

4/15, 19 99. Our ASME Certificate of Authorization No. N1712 to use the N symbol expires 4/15/01.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors; employed by Commercial Union Insurance Company of Boston, Mass. have inspected the repair or replacement described in this Report on 4-15 19 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.

Date 4-15-99 Charles Young Commissions Pennsylvania 2392
(Inspector) Charles Young (State or Providence, Nat'l Board)

Form QAS-14-1, Rev. C

278F-II

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 6/28/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) WA # V80625; CODE FORM 98-278-001 (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 Traveling In-core Probes System, 278F, Class 2.

5. (a) Applicable Construction Code ASME Sec III 19 80 Edition, thru W'80 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) MAIN DISC ASSEMBLY	TARGET ROCK	17 (VALVE)	N/A	SV-22661	1982	REPLACED	YES
2) MAIN DISC ASSEMBLY	TARGET ROCK	966	N/A	SV-22661	1991	REPLACEMENT	YES
3) MAIN DISC ASSEMBLY	TARGET ROCK	17 (VALVE)	N/A	SV-22661	1982	REPAIRED	YES

7. Description of Work REPLACE VALVE MAIN DISC ASSEMBLY AND TACK WELD BODY TO BONNET

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 DATA REPORT 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 AND 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 [signature] Supv. - Site Modifications Group Date July 13, 19 99

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 8, 1998 to APRIL 9, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 7 BNA PA 2459
National Board, State, Province, and Endorsements

Date July 14, 19 99

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 Target Rock Corp.; 1966E Broadhollow Rd; E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)

2. Manufactured for Pennsylvania Power & Light; 2 N. Ninth St.; Allentown, PA 18101
(name and address of Purchaser)

3. Location of installation Susquehanna SES; Route 11; Berwick, PA 18603
(name and address)

4. Type: 202337-1 (drawing no.) | SA-479 316 (mat'l. spec. no.) | 75 KSI (tensile strength) | N/A (CRN) | 1991 (year built)

5. ASME Code, Section III, Division 1: 1980 (edition) | Winter 1980 (addenda date) | 2 (class) | None (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 completed valve assembly Model No. 75KK-211, 75KK-212, 75KK-216 Main Disc Assembly

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	955	N/A
(2)	966	N/A
(3)	N/A	N/A
(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)		
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(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 165 PSIG (when applicable) at temp. °F Ambient

* 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.

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

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. ____________ through ____________

CERTIFICATION OF DESIGN

Design specifications certified by L. S. Loomer (when applicable) P.E. State PA Reg. no. 19675E

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) Part conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. 1948 Expires 12-12-92

Date 8/30/91 Name Target Rock Corporation (NPT Certificate Holder) Signed [signature] (authorized representative)

for E. Bajada, Q.A. Manager

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Insurance Company of Boston, Mass. have inspected these items described in this Data Report on 8/30/91, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, 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 8/30/91 Signed [signature] (Authorized Inspector) Commissions N. Y. STATE COMMISSION NO. 2288 ALSO COMMISSIONED IN PENN., OHIO & CONN. (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) Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) STEM/DISC ASSEMBLY	YARWAY	5651	N/A	2RV-PSL-2N015D	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	91-11-1G-E2	N/A	2RV-PSL-2N015D	1997	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	5651	N/A	2RV-PSL-2N015D	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-PSL-2N015D	1997	REPLACEMENT	NO
5) STEM/DISC ASSEMBLY	YARWAY	5615	N/A	1RV-PSL-2N015D	1976	REPLACED	YES
6) STEM/DISC ASSEMBLY	YARWAY	90-1-2W1-B34	N/A	1RV-PSL-2N015D	1992	REPLACEMENT	YES
7) BACKSEAT BUSHING	YARWAY	5615	N/A	1RV-PSL-2N015D	1976	REPLACED	YES

7. Description of Work SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE PAGE 13 &14)
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks MANUFACTURER'S DATA REPORTS ARE ATTACHED.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (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 7/16 , 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 JUNE 17 1999 to APRIL 17 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 2525 IBNA PA2159
National Board, State, Province, and Endorsements

Date July 16 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 PP&L Inc. (Name) Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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 MSIV NSS SHUTOFF SYSTEM, 283A, CLASS II.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE CODE EDITION PAGE 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) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PSL-2N015D	1997	REPLACEMENT	NO
9) STEM/DISC ASSEMBLY	YARWAY	5281	N/A	1RV-PSL-2N015A	1976	REPLACED	YES
10) STEM/DISC ASSEMBLY	YARWAY	91-11-1G-E4	N/A	1RV-PSL-2N015A	1997	REPLACEMENT	YES
11) BACKSEAT BUSHING	YARWAY	5281	N/A	1RV-PSL-2N015A	1976	REPLACED	YES
12) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PSL-2N015A	1997	REPLACEMENT	NO
13) STEM/DISC ASSEMBLY	YARWAY	5525	N/A	2RV-PSL-2N015A	1976	REPLACED	YES
14) STEM/DISC ASSEMBLY	YARWAY	90-1-2W1-B23	N/A	2RV-PSL-2N015A	1992	REPLACEMENT	YES
15) BACKSEAT BUSHING	YARWAY	5525	N/A	2RV-PSL-2N015A	1976	REPLACED	YES
16) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-PSL-2N015A	1997	REPLACEMENT	NO
17) VALVE	YARWAY	A1037	N/A	1RV-LSL-20112B	1977	REPLACED	YES
18) VALVE	YARWAY	C2764	N/A	1RV-LSL-20112B	1992	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 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-DBB-201-3	1983	REPLACED	YES
20) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-DBB-201-3	1997	REPLACEMENT	NO
21) VALVE	YARWAY	6459	N/A	1RV-LSL-20112C	1976	REPLACED	YES
22) VALVE	YARWAY	C2771	N/A	1RV-LSL-20112C	1992	REPLACEMENT	YES
23) STEM/DISC ASSEMBLY	YARWAY	6283	N/A	2RV-PSL-2N015B	1976	REPLACED	YES
24) STEM/DISC ASSEMBLY	YARWAY	91-11-1G-E13	N/A	2RV-PSL-2N015B	1997	REPLACEMENT	YES
25) BACKSEAT BUSHING	YARWAY	6283	N/A	2RV-PSL-2N015B	1976	REPLACED	YES
26) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-PSL-2N015B	1997	REPLACEMENT	NO
27) STEM/DISC ASSEMBLY	YARWAY	5593	N/A	1RV-PP20101A	1976	REPLACED	YES
28) STEM/DISC ASSEMBLY	YARWAY	91-11-1G-E10 OR E22	N/A	1RV-PP20101A	1997	REPLACEMENT	YES
29) BACKSEAT BUSHING	YARWAY	5593	N/A	1RV-PP20101A	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) — Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PP20101A	1997	REPLACEMENT	NO
31) STEM/DISC ASSEMBLY	YARWAY	5384	N/A	3RV-LSL20112D	1976	REPLACED	YES
32) STEM/DISC ASSEMBLY	YARWAY	AV94-A4	N/A	3RV-LSL20112D	1997	REPLACEMENT	YES
33) BACKSEAT BUSHING	YARWAY	5384	N/A	3RV-LSL20112D	1976	REPLACED	YES
34) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	3RV-LSL20112D	1984	REPLACEMENT	NO
35) STEM/DISC ASSEMBLY	YARWAY	6553	N/A	LSL20112C-VENT	1976	REPLACED	YES
36) STEM/DISC ASSEMBLY	YARWAY	91-11-1G-E10 OR E22	N/A	LSL20112C-VENT	1997	REPLACEMENT	YES
37) STEM/DISC ASSEMBLY	YARWAY	5427	N/A	LSL20112D-VNT	1976	REPLACED	YES
38) STEM/DISC ASSEMBLY	YARWAY	AV94-A6	N/A	LSL20112D-VNT	1997	REPLACEMENT	YES
39) BACKSEAT BUSHING	YARWAY	5427	N/A	LSL20112D-VNT	1976	REPLACED	YES
40) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	LSL20112D-VNT	1996	REPLACEMENT	NO

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

1. Owner PP&L Inc. (Name) — Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) STEM/DISC ASSEMBLY	YARWAY	5339	N/A	2RV-LSHH20112C	1976	REPLACED	YES
42) STEM/DISC ASSEMBLY	YARWAY	AV94-A7	N/A	2RV-LSHH20112C	1997	REPLACEMENT	YES
43) BACKSEAT BUSHING	YARWAY	5339	N/A	2RV-LSHH20112C	1976	REPLACED	YES
44) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-LSHH20112C	1996	REPLACEMENT	NO
45) STEM/DISC ASSEMBLY	YARWAY	6554	N/A	SP-DBB-205-4-49	1976	REPLACED	YES
46) STEM/DISC ASSEMBLY	YARWAY	AV94-B14	N/A	SP-DBB-205-4-49	1998	REPLACEMENT	YES
47) BACKSEAT BUSHING	YARWAY	6554	N/A	SP-DBB-205-4-49	1976	REPLACED	YES
48) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-205-4-49	1996	REPLACEMENT	NO
49) STEM/DISC ASSEMBLY	YARWAY	5505	N/A	1RV-PP-20101C	1976	REPLACED	YES
50) STEM/DISC ASSEMBLY	YARWAY	3467 (DONOR VLV)	N/A	1RV-PP-20101C	1974	REPLACEMENT	YES
51) BACKSEAT BUSHING	YARWAY	5505	N/A	1RV-PP-20101C	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) — Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 6 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PP-20101C	1998	REPLACEMENT	NO
53) STEM/DISC ASSEMBLY	YARWAY	A0657	N/A	2RV-LSHH20108	1977	REPLACED	YES
54) STEM/DISC ASSEMBLY	YARWAY	AV94-B5	N/A	2RV-LSHH20108	1998	REPLACEMENT	YES
55) BACKSEAT BUSHING	YARWAY	A0657	N/A	2RV-LSHH20108	1977	REPLACED	YES
56) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-LSHH20108	1998	REPLACEMENT	NO
57) STEM/DISC ASSEMBLY	YARWAY	5323	N/A	2RV-PP-20101C	1976	REPLACED	YES
58) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	2RV-PP-20101C	1979	REPLACEMENT	YES
59) BACKSEAT BUSHING	YARWAY	5323	N/A	2RV-PP-20101C	1976	REPLACED	YES
60) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-PP-20101C	1998	REPLACEMENT	NO
61) STEM/DISC ASSEMBLY	YARWAY	6553	N/A	SP-DBB-204-3-34	1976	REPLACED	YES
62) STEM/DISC ASSEMBLY	YARWAY	AV94-B23	N/A	SP-DBB-204-3-34	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) Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 7 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, CLASS II.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE CODE EDITION PAGE 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) BACKSEAT BUSHING	YARWAY	6553	N/A	SP-DBB-204-3-34	1976	REPLACED	YES
64) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-204-3-34	1998	REPLACEMENT	NO
65) STEM/DISC ASSEMBLY	YARWAY	5496	N/A	SP-DBB-203-2-66	1976	REPLACED	YES
66) STEM/DISC ASSEMBLY	YARWAY	AV94-B21	N/A	SP-DBB-203-2-66	1998	REPLACEMENT	YES
67) BACKSEAT BUSHING	YARWAY	5496	N/A	SP-DBB-203-2-66	1976	REPLACED	YES
68) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-203-2-66	1998	REPLACEMENT	NO
69) STEM/DISC ASSEMBLY	YARWAY	5603	N/A	1RV-LSH-20112C	1976	REPLACED	YES
70) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	1RV-LSH-20112C	1979	REPLACEMENT	YES
71) BACKSEAT BUSHING	YARWAY	5603	N/A	1RV-LSH-20112C	1976	REPLACED	YES
72) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSH-20112C	1998	REPLACEMENT	NO
73) STEM/DISC ASSEMBLY	YARWAY	A0782	N/A	1RV-LSHH-20108	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) — Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 8 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	1RV-LSHH-20108	1979	REPLACEMENT	YES
75) BACKSEAT BUSHING	YARWAY	A0782	N/A	1RV-LSHH-20108	1977	REPLACED	YES
76) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSHH-20108	1998	REPLACEMENT	NO
77) STEM/DISC ASSEMBLY	YARWAY	5641	N/A	1RV-LSL-20112D	1976	REPLACED	YES
78) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	1RV-LSL-20112D	1979	REPLACEMENT	YES
79) BACKSEAT BUSHING	YARWAY	5641	N/A	1RV-LSL-20112D	1976	REPLACED	YES
80) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSL-20112D	1998	REPLACEMENT	NO
81) STEM/DISC ASSEMBLY	YARWAY	A0816	N/A	2RV-LSH-20108	1977	REPLACED	YES
82) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	2RV-LSH-20108	1979	REPLACEMENT	YES
83) BACKSEAT BUSHING	YARWAY	A0816	N/A	2RV-LSH-20108	1977	REPLACED	YES
84) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-LSH-20108	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) — Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 9 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) STEM/DISC ASSEMBLY	YARWAY	5618	N/A	SP-DBB-203-2-67	1976	REPLACED	YES
86) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	SP-DBB-203-2-67	1979	REPLACEMENT	YES
87) BACKSEAT BUSHING	YARWAY	5618	N/A	SP-DBB-203-2-67	1976	REPLACED	YES
88) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-203-2-67	1998	REPLACEMENT	NO
89) STEM/DISC ASSEMBLY	YARWAY	A0759	N/A	3RV-LSHH20112B	1977	REPLACED	YES
90) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	3RV-LSHH20112B	1979	REPLACEMENT	YES
91) BACKSEAT BUSHING	YARWAY	A0759	N/A	3RV-LSHH20112B	1977	REPLACED	YES
92) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	3RV-LSHH20112B	1998	REPLACEMENT	NO
93) STEM/DISC ASSEMBLY	YARWAY	5572	N/A	1RV-LSHH20112D	1976	REPLACED	YES
94) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	1RV-LSHH20112D	1979	REPLACEMENT	YES
95) BACKSEAT BUSHING	YARWAY	5572	N/A	1RV-LSHH20112D	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) — Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 10 of 14

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

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, CLASS II.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, Thru W'72 Addenda, N/A 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)
96) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSHH20112D	1998	REPLACEMENT	NO
97) STEM/DISC ASSEMBLY	YARWAY	5428	N/A	1RV-LSL-20112A	1976	REPLACED	YES
98) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	1RV-LSL-20112A	1979	REPLACEMENT	YES
99) BACKSEAT BUSHING	YARWAY	5428	N/A	1RV-LSL-20112A	1976	REPLACED	YES
100) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSL-20112A	1998	REPLACEMENT	NO
101) STEM/DISC ASSEMBLY	YARWAY	A1078	N/A	HV-20112C2	1977	REPLACED	YES
102) STEM/DISC ASSEMBLY	YARWAY	AV94-B25	N/A	HV-20112C2	1998	REPLACEMENT	YES
103) BACKSEAT BUSHING	YARWAY	A1078	N/A	HV-20112C2	1977	REPLACED	YES
104) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	HV-20112C2	1998	REPLACEMENT	NO
105) STEM/DISC ASSEMBLY	YARWAY	5278	N/A	SP-DBB-203-2-64	1976	REPLACED	YES
106) STEM/DISC ASSEMBLY	YARWAY	AV94-B3	N/A	SP-DBB-203-2-64	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) Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 11 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) BACKSEAT BUSHING	YARWAY	5278	N/A	SP-DBB-203-2-64	1976	REPLACED	YES
108) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-203-2-64	1998	REPLACEMENT	NO
109) STEM/DISC ASSEMBLY	YARWAY	A0828	N/A	4RV-LSL-20112B	1977	REPLACED	YES
110) STEM/DISC ASSEMBLY	YARWAY	AV94-B22	N/A	4RV-LSL-20112B	1998	REPLACEMENT	YES
111) BACKSEAT BUSHING	YARWAY	A0828	N/A	4RV-LSL-20112B	1977	REPLACED	YES
112) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	4RV-LSL-20112B	1998	REPLACEMENT	NO
113) STEM/DISC ASSEMBLY	YARWAY	A0804	N/A	SP-DBB-201-3-17	1977	REPLACED	YES
114) STEM/DISC ASSEMBLY	YARWAY	AV94-B8	N/A	SP-DBB-201-3-17	1998	REPLACEMENT	YES
115) BACKSEAT BUSHING	YARWAY	A0804	N/A	SP-DBB-201-3-17	1977	REPLACED	YES
116) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-201-3-17	1998	REPLACEMENT	NO
117) STEM/DISC ASSEMBLY	YARWAY	A0514	N/A	SP-DBB-202-3-65	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) Date 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 12 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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 PAGE 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) STEM/DISC ASSEMBLY	YARWAY	AV94-B2	N/A	SP-DBB-202-3-65	1998	REPLACEMENT	YES
119) BACKSEAT BUSHING	YARWAY	A0514	N/A	SP-DBB-202-3-65	1977	REPLACED	YES
120) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-202-3-65	1998	REPLACEMENT	NO
121) VALVE BODY	YARWAY	A1069	N/A	HV20112D2	1977	REPLACED	YES
122) VALVE BODY	YARWAY	B8032	N/A	HV20112D2	1983	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 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 13 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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(S)	WORK AUTH.	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-4	V71585	2RV-PSL-2N015D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
5-8	V71586	1RV-PSL-2N015D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
9-12	V71584	1RV-PSL-2N015A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
13-16	V71587	2RV-PSL-2N015A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
17-20	V71507	1RV-LSL-20112B/SP-DBB-201-3 REPLACE VALVE, PIPE AND (2) ELBOWS.	NON VT-2 PER MI-PS-008	ORIG AND RELACEMENT VLV., '74 ED/W'74 ADD.
21-22	V72467	1RV-LSL-20112C, REPLACE VALVE	NON VT-2 PER MI-PS-008	ORIG AND RELACEMENT VLV., '74 ED/W'74 ADD.
23-26	V80561	2RV-PSL-2N015B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
27-30	V80717	1RV-PP-20101A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
31-34	V80719	3RV-LSL-20112D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
35-36	V80718	LSL20112C-VENT, REPLACE STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
37-40	V81012	LSL-20112D-VNT, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
41-44	V81028	2RV-LSHH-20112C, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
45-48	V81340	SP-DBB-205-4-49, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
49-52	V72481	1RV-PP-20101C, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE & DISC, '74 ED/W'74 ADD.
53-56	V81406	2RV-LSHH-20108, REPLACE STEM/DISC ASSMEBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
57-60	V72441	2RV-PP-20101C, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
61-64	V72482	SP-DBB-204-3-34, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.

283A-II

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 7/15/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 14 of 14

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System MSIV NSS SHUTOFF SYSTEM, 283A, 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(S)	WORK AUTH.	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
65-68	V73017	SP-DBB-203-2-66, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
69-72	V80580	1RV-LSH-20112C, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
73-76	V71567	1RV-LSHH-20108, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
77-80	V71562	1RV-LSL-20112D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
81-84	V71566	2RV-LSH-20108, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
85-88	V71579	SP-DBB-203-2-67, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
89-92	V80714	3RV-LSHH-20112B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
93-96	V81356	1RV-LSHH-20112D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
97-100	V71563	1RV-LSL-20112A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '74 ED/W'75 ADD.
101-104	V90482	HV-20112C2, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
105-108	V90486	SP-DBB-203-2-64, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
109-112	V90574	4RV-LSL-20112B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
113-116	V90575	SP-DBB-201-3-17, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
117-120	V90576	SP-DBB-202-3-65, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. DISC '86/NO ADD.
121-122	V90481	HV-20112D2, REPLACE VALVE BODY	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED/W'74 ADD. RPLC DISC '71 ED/W'73 ADD.

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

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by YARWAY CORPORATION, * 480 Norristown Road, Blue Bell, PA 19422-0760 (name and address of NPT Certificate Holder)

2. Manufactured for Framatome Technologies, Lynchburg, VA 24506 (name and address of purchaser)

3. Location of installation Stock (name and address)

4. Type 969155-06 (drawing no.) | AMS5385E (disc) (mat'l. spec. no.) | 52,000 Min. (tensile strength) | N/A (CRN) | 1997 (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 responsible for reconciling this construction data with the design specification for the facility using the parts.
* A Subsidiary of Keystone International, Inc.

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

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

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

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
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(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(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 × 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 & Disc Assemblies, 1 inch conforms to the rules of construction of the ASME Code, Section III.

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

* Factory Mutual Engineering Association

Date 05/30/97 Signed _____ (Authorized Inspector) Commissions NB9541 'N' PA2389 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

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

Not To Exceed One Day's Production

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

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

3. Location of installation Stock
(name and address)

4. Type 969155-06- (drawing no.) | AMS5385E (disc) (mat'l. spec. no.) | 52,000 PSI Min. (tensile strength) | N/A (CRN) | 1992 (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 responsibl for reconciling this construction data with the design specification for the facility using the parts.

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

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

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

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

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.

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" conforms to the rules of construction of the ASME Code, Section III.

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

Date 21 Dec 92 Name Yarway Corporation (NPT Certificate Holder) Signed F. W. Peszka (authorized representative)

CERTIFICATE OF SHOP INSPECTION

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

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

* Factory Mutual System

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

CORRECTED COPY Jul 10 28 97

SHOP ORDER 13258 .STER(S) 01040

Dw 10/20/97

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by YARWAY CORPORATION*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760
   * A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
2. Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 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) 1997 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 Jul 10 28 97 Dw 10/28/97 (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
(1)	AV94-A1	—
(2)	AV94-A2	—
(3)	AV94-A3	—
(4)	AV94-A4	—
(5)	AV94-A5	—
(6)	AV94-A6	—
(7)	AV94-A7	—
(8)	AV94-A8	—
(9)	AV94-A9	—
(10)	AV94-A10	—
(11)	AV94-A11	—
(12)	AV94-A12	—
(13)	AV94-A13	—
(14)	AV94-A14	—
(15)	AV94-A15	—
(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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(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)	FTI OP SUP CBK	
(48)		
(49)		
(50)		

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

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 10/24/97 Name YARWAY CORPORATION (NPT Certificate Holder) Signed _____ (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 o PENNSYLVANIA and employed by * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

*FACTORY MUTUAL ENGINEERING ASSOCIATION

Date 10/24/97 10/28/97 Signed _____ (authorized inspector) Commissions NB9541 "N", PA2389 (Natl. Bd. (incl. endorsements) state or prov. and no.) NB 11207 "N" PA 2607

FTI
OP SUP
CRR

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
(1)	AV94-B1	—
(2)	AV94-B2	—
(3)	AV94-B3	—
(4)	AV94-B4	—
(5)	AV94-B5	—
(6)	AV94-B6	—
(7)	AV94-B7	—
(8)	AV94-B8	—
(9)	AV94-B9	—
(10)	AV94-B10	—
(11)	AV94-B11	—
(12)	AV94-B12	—
(13)	AV94-B13	—
(14)	AV94-B14	—
(15)	AV94-B15	—
(16)	AV94-B16	—
(17)	AV94-B17	—
(18)	AV94-B18	—
(19)	AV94-B19	—
(20)	AV94-B20	—
(21)	AV94-B21	—
(22)	AV94-B22	—
(23)	AV94-B23	—
(24)	AV94-B24	—
(25)	AV94-B25	—

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	AV94-B26	—
(27)	AV94-B27	—
(28)	AV94-B28	—
(29)	AV94-B29	—
(30)	AV94-B30	—
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
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(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

FTI
OP SUP
PBG

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' (Natl. Bd. (incl. endorsements) state or prov. and no.)

FTI
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FORM NV-1 MANUFACTURERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

15

1. Manufactured by Yarway Corporation, Blue Bell, PA Order No. 40751
(Name & Address of Manufacturer)

2. Manufactured for Bechtel Power Corporation Order No. 9645-M-251.0
(Name and Address)

3. Owner Mississippi Power and Light Company

4. Location of Plant Port Gibson, Mississippi

5. Pump or Valve Identification Nuclear Service Valves - Serial Numbers
J. Saulby 11/22/78
3461 Thru. 3485 Inclusive
(Brief description of service for which equipment was designed)

(a) Drawing No. 103271-04 Prepared by Yarway Corporation

(b) National Board No. None

6. Design Conditions 2350 (Pressure) psi 700 (Temperature) °F or Pressure Class 1500 PSI (1)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1974, Addenda Date Winter 1974, Case No. None

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	A5	AMS 5382	Nova/Howmet	Disc
(b) Forgings	N1	SA 105	Cape Ann Tool Co	Body
	YW 684	SA 193 B7	Republic Steel	Backseat Bushin

No. 91-0135
RECORD PACKAGE
PAGE 23 OF 47

(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.

**S/N 3461 thru 3485 inclusive

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 Corp., Gaithersburg, Maryland
Design specifications certified by Thomas W. Habermas (1) Prof. Eng. State MISS Reg. No. 6064
Stress analysis report certified by Harold I. Gregg (1) Prof. Eng. State Pa. Reg. No. 9053E
(1) Signature not required. List name only.

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

Date August 23, 19 76 Signed Yarway Corporation (Manufacturer) By W. A. Volgor
W. A. Volgor

Certificate of Authorization No. N-899 expires October 28, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Phila. Manufacturers Mutual Insurance Co.* Phila. PA have inspected the equipment described in this Data Report on August 23, 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date August 23, 19 76

D. Daullary (Inspector)
David L. Daullary

Commissions NB 7525 PA 2159 (National Board, State, Province and No.)

C.A.H. 9-29-76

No. 81-013 5
RECORD PACKAGE
PAGE 36 OF 47

D. Daullary 11/22/78

*Part of the Factory Mutual System

**Corrected copy - Mfg. Rep. W A Volgor 11/1/78 ANI. [illegible] 11/3/78

NB 6344

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

As Required by the Provisions of the ASME Code Rules P.O. # 36829

(36)

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. Order No. 72082
(Name & Address of Manufacturer)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM Order No. 9779-41G
(Name and Address) RICHLAND, WASHINGTON

3. Owner WASHINGTON PUBLIC POWER SUPPLY SYSTEM (WPPSS)

4. Location of Plant RICHLAND, WASHINGTON

5. Pump or Valve Identification NUCLEAR SERVICE VALVES - SIZE 1"

SERIAL NUMBER(S) A7327 THRU A7343

(Brief description of service for which equipment was designed)

(a) Drawing No. 104561-06 Prepared by YARWAY CORPORATION

(b) National Board No. #302 THRU 318

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 1975, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C7	AMS 5385	NOVA/HOWMET	DISC
(b) Forgings	Y8	SA105	CAPE ANN TOOL CO.	BODY
	6581	SA564 Gr.630	CARTECH CORP.	BACKSEAT BUSHING

DOCUMENT REVIEWED
JUN 28 79 J. M. FEIL
By: U.E. & C.

(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.

37)

FORM NPV-1 (back)

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

DOCUMENT REVIEWED
ON 28 '79 J. M. FEIL
By: _____
U.E. & C.

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at W P P S S - RICHLAND, WASHINGTON

Stress analysis report on file at NONE REQUIRED

Design specifications certified by RATHIN BASU (1) Prof. Eng. State WASH. Reg. No. 15047

Stress analysis report certified by NONE REQUIRED (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date May 2 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 PHILA. MANUFACTURERS of MUTUAL INS. CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on May 2 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date May 2 19 79

D. Daullary (Inspector) DAVID L. DAULLARY Commissions NB 7525 PA 2159 (National Board, State, Province and No.)

*PART OF THE FACTORY MUTUAL SYSTEM

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

(34)

As Required by the Provisions of the ASME Code Rules P.O.# 36829

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. Order No. 72082
(Name & Address of Manufacturer)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM Order No. 9779-41G
(Name and Address) RICHLAND, WASHINGTON

3. Owner WASHINGTON PUBLIC POWER SUPPLY SYSTEM (WPPSS).

4. Location of Plant RICHLAND, WASHINGTON

5. Pump or Valve Identification NUCLEAR SERVICE VALVES - SIZE 1"

SERIAL NUMBER(S) A7302 THRU A7326 EXCLUDING A7323
(Brief description of service for which equipment was designed)

(a) Drawing No. 104561-06 Prepared by YARWAY CORPORATION

(b) National Board No. WRD 5/19 #277 THRU 301 EXCLUDING #298

6. Design Conditions [illegible] (Pressure) psi [illegible] (Temperature) °F or Pressure Class 1500 psi (1)

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

Edition 1974, Addenda Date WINTER 1975, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C7	AMS 5385	NOVA/HOWMET	DISC
(b) Forgings	Y8	SA105	CAPE ANN TOOL CO.	BODY
	6581	SA564 Gr.630	CARTECH CORP.	BACKSEAT BUSHING

DOCUMENT REVIEWED
JUN 2879 J. M. FEIL
By: U.E. & C.

(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.

(5)

7-42
C-42C

(16)

FORM NPV-1 (back)

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

DOCUMENT REVIEWED
JUN 28 79 J. M. FEIL
By: _____
U.E. & C.

6. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at W P P S S - RICHLAND, WASHINGTON

Stress analysis report on file at NONE REQUIRED

Design specifications certified by RATHIN BASU (1) Prof. Eng. State WASH. Reg. No. 15049

Stress analysis report certified by NONE REQUIRED (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date MAY 2 19 79 Signed YARWAY CORPORATION (Manufacturer) By 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 PHILA. MANUFACTURERS of MUTUAL INS. CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on MAY 2 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date MAY 2 19 79

D. Daullary (Inspector) Commissions NB 7525 PA 2159 (National Board, State, Province and No.)

DAVID L. DAULLARY

*PART OF THE FACTORY MUTUAL SYSTEM

FORM NPV-1 N CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR PUMPS OR VALVES

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

REGISTER 16252 — SHOP ORDER 01195

1. Manufactured by Yarway Corporation, Norristown & Narcissa Rds., Blue Bell, PA 19422
(Name and Address of N Certificate Holder)

2. Manufactured for Penna. Power & Light Co., Two N. 9th St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Susquehanna SES, Berwick, PA 18603
(Name and Address)

4. Pump or Valve Valve — Nominal Inlet Size 1 (inch) — Outlet Size 1 (inch)

(a) Model No., 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
5615B-SA105	C2760 through C2783	-	111082/None	1	-	1992

Nuclear Service Globe Valves
(Brief description of service for which equipment was designed)

5. Design Conditions - psi - °F or Valve Pressure Class 1500

6. Cold Working Pressure 3600 psi at 100°F

7. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
G90	AMS 5385E	Southern Tool, Inc.	Disc
(b) Forgings			
E87	ASME SA105	Endicott Forging & Mfg. Co., Inc.	Body

(1) Signature not required, list name only.

(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, and 3 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
4345	ASME SA182 Gr. F6a Class 2	Atlas Steels	Backseat Bushing

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3960 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda W1974 (Date), Code Case No. -, Date 2/28/92

Signed Yarway Corporation (N Certificate Holder) by F. W. Peszka

Our ASME Certificate of Authorization No. N2449 to use the N (N) symbol expires 11/14/92 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Company

Stress analysis report (Class 1 only) on file at Pennsylvania Power & Light Company

Design specifications certified by (1) John R. Schmiedel, Richard O. Schlueter, Sidney A. Copland

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

Stress analysis certified by (1) George J. Pabtzun

PE State PA Reg. No. PE-034809-E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA ** have inspected the pump, or valve, described in this Data Report on Feb. 28, 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date Feb. 28, 19 92 ** Factory Mutual System

Commissions

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

As Required by the Provisions of the ASME Code Rules P.O. #40883

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA 19422 Order No. 83637
(Name & Address of Manufacturer)

2. Manufactured for BECHTEL POWER CORP. Order No. 7220-M-127-CC
(Name and Address)

3. Owner CONSUMERS POWER CO.

4. Location of Plant MIDLAND, MI

5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE 1"

SERIAL NUMBER(S) B8030 THRU B8054
(Brief description of service for which equipment was designed)

(a) Drawing No. 045787 A Prepared by YARWAY CORPORATION

(b) National Board No. N/A

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

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

Edition 1971, Addenda Date WINTER, '73, Case No. ---

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	D7	AMS 5385E	NOVA/HOWMETT CORPORATION	DISC
(b) Forgings	N5	SA 105	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 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.

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

BECHTEL

RIEE 87-0319 Page 31 of 43

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	NONE			
(d) Other Parts	3986	SA182 F6A CL 2	PETER A. FRASSE CO.	BACKSEAT BUSHING

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at CONSUMERS POWER COMPANY

Stress analysis report on file at NOT REQUIRED

Design specifications certified by _____ (1) Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. Enter name only. *MICHAEL O. ROTHWELL MICH. 20451
THEODORE W. VANVICK MICH. 22285
RONALD W. ZORNEY MICH. 17926

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

Date 7/29 19 83 Signed YARWAY CORPORATION By W. A. Volger
(Manufacturer) W. A. VOLGER

Certificate of Authorization No. N2449 expires NOVEMBER 14, 1983.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and or the State or Province of PENNSYLVANIA and employed by PHILA MFG. MUTUAL INS. CO of NORWOOD, MA* have inspected the equipment described in this Data Report on 7/29 19 83, 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.

*FACTORY MUTUAL SYSTEM

Date 7/29 19 83

[signature] Commissions NB 6344 A 2052
(Inspector) (National Board, State, Province and No.)

RECEIVED 633

RIEE 87-0319
Page 32 of 43

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 7/6/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) WA # V90827; CODE FORM 98-283-011 (Repair Organizaton 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 Main Steam Isolation Valve and Control, 283B, Class 3.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru S75 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 (BALL)	CONTROMATICS	84632-2-13	N/A	241F029A	1976	REPLACED	YES
2) VALVE (BALL)	CONTROMATICS	HT # A20185	N/A	241F029A	1985	REPLACEMENT	YES

7. Description of Work REPLACE VALVE BALL

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 DATA REPORT ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

repair or replacement

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 13 ,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 MARCH 30 1999 to APRIL 17 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]

Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions NB 7525 IBNA PA2159

National Board, State, Province, and Endorsements

Date Jul. 15 19 99

P.O. 3-07045-1-2, Item 1 S.O. NP87577, Item 1

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 Contromatics Div., 222 Roberts Street, East Hartford, CT 06108
(name and address of certificate holder)

2. Manufactured for Bechtel Power Corp., San Francisco, CA 94119
(name and address of purchaser)

3. Location of Installation SSES, 5 miles NE of Berwick, PA
(name and address)

4. Type 598-10-03 REV. C (drawing no.) ASME SA 479 Ty. 316 (mat'l. spec. no.) N/A (tensile strength) ; N/A (CRN) 1985 (year built)

5. ASME Code, Section III: 1974 (edition) Summer 1975 (addenda) 3 (class) N/A (Code Case no.)

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

7. Remarks: 1" Balls for 1" Ball Check Valve

Service for: Water/Steam

8. Nom. thickness (in.) 1 Min. design thickness (in.) 1 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)	3E219T-26	N/A	(26)		
(2)	3E219T-27	N/A	(27)		
(3)	3E219T-28	N/A	(28)		
(4)	3E219T-29	N/A	(29)		
(5)	3E219T-30	N/A	(30)		
(6)	3E219T-31	N/A	(31)		
(7)	3E219T-32	N/A	(32)		
(8)	3E219T-33	N/A	(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 160 psi Temp. 340 °F. Hydro. test pressure 1100 (when applicable) at temp. °F.

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 X 11, (2) information in items 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.

(6/82)

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

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

Not To Exceed One Day's Production

CERTIFICATE OF DESIGN

Design specifications certified by Rajan V. Parekh State ___ Reg. no. 29882-E

Design report* certified by ___ State ___ Reg. no. ___
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1935 Expires 11/18/86

Date 4-10-85 Name Contromatics Signed David Platt
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of Conn and employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected these items described in this data report on 4-10-85 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 4-10-85 Signed Frank Araujo Commissions Ct 528
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

"PARTS"

CONTINUATICS NUCLEAR POWER INSPECTION AND TEST REPORT

DATE: 4-3-85

CUSTOMER: PENN PWR. LT. | CONTRACT NO. 3-0702S-1-2 | SALES NO. N1875 7

ITEM	PART DESCRIPTION	DRAWING NO.	PC.#	CODE CLASS	PART SERIAL NO.	HEAT NO.	QTY
	BALL FOR 1" VALVE	598-10-03 Rk	4	3	3E219T-26	A20185	1
					-27		1
					-28		1
					-29		1
					-30		1
					-31		1
					-32		1
					-33		1

ITEM	HYDRO SHELL TEST 1100 PSIG FOR 10 MIN.	PNEUMATIC TEST 750 PSIG FOR 4 MIN.	FINAL VISUAL & DIM. INSP.	ACTUAL MIN WALL	INSPECTOR
	WE 4/8/85 (19)	WE (19) 4/8/85	(19) 4-8-85	NA	DP 4-9-85
	WE (19)	WE (19)	(19) 4-8-85	NA	
	WE (19)	WE (19)	(19)	NA	
	WE (19)	WE (19)	(19)	NA	
	WE (19)	WE (19)	(19)	NA	
	WE (19)	WE (19)	(19)	NA	
	WE (19)	WE (19)	(19)	NA	
	WE 4/8/85 (19)	WE (19) 4/8/85	(19)	NA	

ANI/AI REVIEW
INITIAL
DATE 4-10-85

CERTIFICATE OF TEST

Crucible Specialty Metals Division

SOLD TO	SHIP TO	Q.A. ORDER NO. / DATE
EARLE M JORGENSEN CO PO BOX 1900 SCHAUMBURG IL 60194	EARLE M JORGENSEN CO 1900 MITCHELL BLVD SCHAUMBURG IL 60194	88 90975 06/15/84

2748

CUSTOMER ORDER # & DATE	CUSTOMER NO.	DISTRICT	SHIPPED FROM
C7407 6/1		J. RUDY	SYRACUSE

DESCRIPTION OF MATERIAL

SIZE 1-15/16 RD

CRU316PLUS MHQ 3937 CGA
AMS5648F ASTM-A276-83 QQS763D ASTM-A479-83 ASME-SA479 ✓
ASTM-A193-83A GR B8M CL1 ASME-SA193 GR B8M CL1
ASTM-A320-83 GR B8M CL1 ASME-SA320 GR B8M CL1

DP 11-5-84
NP Comp. 1" BALLS
Trace #3E219T S/N
HT A20185 SLAB

3/16

HEAT NO / CHEMICAL ANALYSIS

HEAT NO	C	MN	P	S	SI	NI	CR	MO	CU	N
A20185	.05	1.73	.030	.026	.37	10.40	16.60	2.07	.33	.051

1-15/16 RD

ANI/AI REVIEW
INITIAL [illegible]
DATE 4-10-85

CUSTOMER PENN. POWER + LIGHT CO.
PROJECT
JOB NO.
SPEC. NO 8856-M-4 REV.16, 8856-M-225 REV.3, 8856-P-14 REV.11
P.O. NO 3-07045-1-2 ITEM NO. 1
DESC. BALLS FOR 1" BALL CHECK VALVE

QUANTITY	HEAT NO.	YIELD PSI	TENSILE PSI	%ELONG IN	RED/AREA%	HARDNESS
5230	A20185	46,000	85,300	68.0	79.5	BHN 170

MACRO TEST OK

INTERGRANULAR CORROSION TEST OK

MATERIAL ANNEALED AT 1950 DEG. F. MIN. - WATER QUENCHED

JUN 20 1984

QC SRUC 13

MATERIAL FREE FROM MERCURY CONTAMINATION AT TIME OF SHIPMENT

"THIS MATERIAL WAS PRODUCED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM MANUAL REV2 (04/15/83) AUDITED AND APPROVED BY E.M.J. MAY 7,1984."

20/85

SWORN TO AND SUBSCRIBED BEFORE ME THIS
______ DAY OF ______, 19

THE TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.
CRUCIBLE MATERIALS CORPORATION
ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

CERTIFIED BY: [signature]
REPRESENTATIVE

MASTER D.O.

EARLE M. JORGENSEN CO.

PHONE (312)873-6000 ... MITCHELL BLVD ... BOX 1900

00-989-7592

ORDERED BY: DAVE PETERSON — RESALE

UP 64417-9 — 10/17/84

LITTON INDUSTRIES INC
CONTROMATICS DIV
222 ROBERTS ST
EAST HARTFORD CT 06108

SAME

Q.C. EMJC 8 OCT 18 1984

CERTIFICATE OF CONFORMANCE

MHQ		ASME SA 479 TYPE 316 A & D
MHQ3931	1 BAR	1-15/16 RD X 12 R/L
		SELECT HEAT # A20185
		MILLI CRUCIBLE
		LOC 3-18-15-15
		CUT SAMPLE-6 LONG
8199		MARKING
8199		PACKAGING-BOX FOR SHIPMENT
8738-590		MATERIAL VERIFICATION
8199		NUCLEAR DOCUMENTATION
		NUCLEAR NUCLEAR NUCLEAR

NUCLEAR

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specifications forming a part of the description.

ASME B&PV CODE SECTION III NCA 3800
1980 Edition Winter 82 Addenda

MATERIAL PURCHASED, RECIEVED AND STORED IN ACCORDANCE WITH QUALITY SYSTEM PROGRAM.

EARLE M. JORGENSEN CO.
QSC 278-2 EXPIRES APRIL 15, 1986

BY Christine Murr
STOCK RECORDS SUPERVISOR

BEST COPY AVAILABLE

DCC MAY 23 1985

SUBSCRIBED AND SWORN TO BEFORE ME

THIS ______ DAY OF ______ 19 ____

______ NOTARY PUBLIC

MY COMMISSION EXPIRES ______

Q.C. EMJC 13 OCT 22 1984

CUSTOMER PENN POWER & LIGHT CO.
PROJECT
JOB NO.
SPEC. NO. 8856-P-14 ... REV. 11
P.O. NO. J-07045-1-2 ITEM NO. 1
DESC. BALLS FOR 1" CHECK VALVE

DP 11-5-84

NP Comp. 1" BALLS

Trace #3E219T S/N
HT. A20185 SLAB

ANII REVIEW
INITIAL [initials]
DATE 4-10-85

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 7/6/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) WA # V86691; CODE FORM 98-283-009 (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 MSIV Leakage Control, 283H, Class 2.

5. (a) Applicable Construction Code ASME Sec III * 19 71 Edition, thru W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 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) FLEXIBLE METAL HOSE	METAL BELLOWS CORP.	654	N/A	JD-23-3-1B	1978	REPLACED	YES
2) FLEXIBLE METAL HOSE	METAL BELLOWS CORP.	552	N/A	JD-23-3-1B	1982	REPLACEMENT	YES

7. Description of Work REPLACE METAL FLEX HOSE

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 DATA REPORT ATTACHED. METAL BELLOWS CORPORATION CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

FOR ORIGINAL AND REPLACEMENT PARTS ASME Sec III 1977 Edition thru Winter 1977 Addenda

Code Cases N-188-1 & N-192.

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] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 13, 19 99

CERTIFICATION OF INSERVICE INSPECTION

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

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

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

Date JUL. 14 1999

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 AND 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 _____ Date July 19, 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 MARCH 30, 1999 to APRIL 15, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7325 18NA PA2459

National Board, State, Province, and Endorsements

Date July 14 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 PP&L Inc. (Name) Date 6/28/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) WA # H80387; CODE FORM 98-283-009 & 010 (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 Auto Pressure Blowdown System, 283E, Class 3.

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 HANGER (NUTS)	UNYTITE	HT # B78528	N/A	SP-HCC-233-H5019	1998	REPAIRED	NO
2) SMALL PIPE HANGER (NUTS)	BECHTEL	N/A	N/A	SP-HCC-233-H5019	1983	REPLACED	NO
3) SMALL PIPE HANGER (NUTS)	UNYTITE	HT # B78528	N/A	SP-HCC-233-H5019	1998	REPLACEMENT	NO
4 SMALL PIPE FLANGE (NUTS)	BECHTEL	N/A	N/A	SP-HCC-233-12	1983	REPLACED	NO
3) SMALL PIPE FLANGE (NUTS)	UNYTITE	HT CD # P3	N/A	SP-HCC-233-12	1998	REPLACEMENT	NO

7. Description of Work REPLACED LOCK NUTS (MACHINED HEX TO LOCK) AND FLANGE NUTS

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.

Corrected Data Report - Revised "Bechtel Power Corp" address from "Norwalk" to "San Francisco".

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by Metal Bellows Corp., Chatsworth, Calif. (Name and Address of Fabricator) Order No. 13315

2. Fabricated for Bechtel Power Corp., San Francisco, Calif. (Name and Address) Order No. 8856-J-71-AC

3. Owner Pennsylvania Power & Light Co. 4. Location of Plant Susquehanna Steam Electric Station 5 Mi. N.E. of Berwick, PA. on RTE 11 North

5. Piping System Identification Instrumentation, Flexible Metal Hose Connectors (Brief description of intended use, main coolant etc.)

(a) Drawing No. 73989 ** Prepared by Metal Bellows Corp., Chatsworth, Ca.

(b) National Board No. ---

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

Edition 1977 *** , Addenda Date W'77 *** , Case No. N-188-1 & N-192

Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report --- (Name of Part — Item number, Manufacturer's name, and identifying stamp)

7. Shop Hydrostatic Test 10 Min. @ 5330 psi.

8. Description of piping inspected 73989; SB444 0.81" O.D. x .016" thick straight Inconel 625 Pipe, Adaptor Inconel 625 per SB446 0.710" O.D. x .750" long. End connections; SA213, Type 304 Cres. .500" O.D. x 2.38" both ends. Total length is 42.25". Design verified by analysis per NC3649.4(e)(1) and Code Case N-192. Installation to be by Customer/Owner per 73989.

Pressure Rating 2500 PSIG @ 700° F. Max.

Flexible Metal Hose (Expansion Joint) S/N's 552 thru 576 (25 pcs.)

**Metal Bellows Corp. P/N 73989

(include — mark no. — material spec. — nom. pipe size — schedule or thickness — length — fittings — flanges, etc.)

We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Date 9/22/82 Signed Metal Bellows Corp. (Fabricator) By [signature]

Certificate of Authorization Expires 8 Sept. 1981 Certificate of Authorization No. N-1220 New Certificate # N-2512 Exp. Date: Sept. 25,1984

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 California and employed by [illegible] of [illegible] have inspected the piping described in this Data Report on 9/22 19 82 and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the piping 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 9-22, 1982

[signature] (Inspector) Commissions Pa #2364 2566 National Board, State, Province and No.

BECHTEL 439

3684

*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 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 7, "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) — Date: 6/28/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

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: MAIN STOP VALVES, 293G, CLASS 2.

5. (a) Applicable Construction Code: ASME SecIII * 19 74 Edition, thru W74 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) STEM/DISC ASSEMBLY	YARWAY	5681	N/A	2RV-PDT-20101A	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	AV94-B7	N/A	2RV-PDT-20101A	1998	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	5681	N/A	2RV-PDT-20101A	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-PDT-20101A	1998	REPLACEMENT	NO
5) STEM/DISC ASSEMBLY	YARWAY	5573	N/A	2RV-PDT-20101B	1976	REPLACED	YES
6) STEM/DISC ASSEMBLY	YARWAY	AV94-B4	N/A	2RV-PDT-20101B	1998	REPLACEMENT	YES
7) BACKSEAT BUSHING	YARWAY	5573	N/A	2RV-PDT-20101B	1976	REPLACED	YES

7. Description of Work: SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE SHEET 3
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks MANUFACTURER'S DATA REPORTS ARE ATTACHED. REPLACEMENT PARTS FOR
Applicable Manufacturer's Data Reports to be attached

YARWAY VALVES, CODE OF CONSTRUCTION : ASME Sec III 1986 ED NO ADD.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 13, 1999
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period FEB. 5, 1999 to APRIL 7, 1999 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.
Commissions NR 2525 IBNA PA2459
National Board, State, Province, and Endorsements

Date July 14 1999

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 6/28/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

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. Indentification of System MAIN STOP VALVES, 293G, CLASS 2.

5. (a) Applicable Construction Code ASME Sec 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 (* 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	2RV-PDT-20101B	1998	REPLACEMENT	NO
9) STEM/DISC ASSEMBLY	YARWAY	5265	N/A	1RV-PDT-20101B	1976	REPLACED	YES
10) STEM/DISC ASSEMBLY	YARWAY	AV94-B24	N/A	1RV-PDT-20101B	1998	REPLACEMENT	YES
11) BACKSEAT BUSHING	YARWAY	5265	N/A	1RV-PDT-20101B	1976	REPLACED	YES
12) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PDT-20101B	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) — Date 6/28/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 Of 3

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

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. Indentification of System MAIN STOP VALVES, CLASS 2

5. (a) Applicable Construction Code ASME Sec III * 19 74 Edition, Thru W74 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	V71565	2RV-PDT-20101A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
5-8	V71564	2RV-PDT-20101B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
9-12	V90487	1RV-PDT-20101B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 214-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # P63612 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer Struthers Wells

5. Identifying nos: 06-31765-2 (mfr's serial no.) 2168 (original National Board no.) Pa 480990 (jurisdiction no.) 2E201B (other) 1975 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 97-214-002 : WELD REPAIR WATER BOX AND END BELL TO CORRECT EROSION.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.

NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING.

* ISLT PERFORMED AT SW SYSTEM PRESSURE 145 PSIG AND TEMP 87°F

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A , 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on Nov 7, 1997 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 233-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # P74475 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos: 700198 (mfr's serial no.) 129473 (original National Board no.) Pa 483769 (jurisdiction no.) 2S146A (other) 1976 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-233-002 : WELD REPAIR COVER PLATE FLANGE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION. NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFORMED OPERATING SERVICE WATER SYSTEM; AT NORMAL TEMPERATURE 87° F & 145 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 19 99 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * _____ of NORWOOD, MASS. has inspected the work described in this report on FEB 9, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED. [X] REPAIR OR [ ] ALTERATION 233-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # P81874 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos: 700203 (mfr's serial no.) 129747 (original National Board no.) Pa 483770 (jurisdiction no.) 2S146B (other) 1976 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 99-233-001 : WELD REPAIR WATER BOX.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION. NDE PERFORMED IN LIEU OF HYDROSTATIC TEST. ISLT PERFORMED OPERATING SERVICE WATER SYSTEM; AT NORMAL TEMPERATURE 87° F & 145 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv / Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on MARCH 17, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 234-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # P74564 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos: 700206 (mfr's serial no.) 129867 (original National Board no.) Pa 483765 (jurisdiction no.) 2K206A (other) 1976 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-234-001 : WELD REPAIR INTERNAL AND EXTERNAL SURFACE OF COVER PLATE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION. NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFORMED WITH SERVICE WATER SYSTEM AT NORMAL TEMP OF 105° F AND 130 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
[Authorized Inspector] (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv. - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on FEB 24, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date JULY 13, 1999 Signed _____ Commissions NB 7525 RNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 247-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # V90585 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos: 72-H-715-3-A (mfr's serial no.) 3003 (original National Board no.) Pa 480710 (jurisdiction no.) 2E103A (other) 1976 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION. (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 99-247-001 : PLACE AREA OF EROSION BY WELDING USING FLUSH PATCH.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION. ULTRA SONIC WELD EXAMINATION PERFORMED. ISLT PERFORMED WITH EXTRACTION.STEAM IN SERVICE AT A NORMAL TEMPERATURE 293° F AND 45 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. Endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L, Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * _____ of NORWOOD, MASS. has inspected the work described in this report on APRIL 20, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 2525 IBNA PA 2139
(Authorized Inspector) (National Board (incl. Endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 247-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # V90601 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos: 72-H-715-3-B (mfr's serial no.) 3004 (original National Board no.) Pa 480715 (jurisdiction no.) 2E103B (other) 1976 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION. (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 99-247-002 : REPLACE AREA OF EROSION BY WELDING, USING FLUSH PATCH.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION. ULTRA SONIC WELD EXAMINATION PERFORMED. ISLT PERFORMED WITH EXTRACTION STEAM IN SERVICE AT A NORMAL TEMPERATURE 293° F AND 45 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector). (National Board (incl. Endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * _____ of NORWOOD, MASS. has inspected the work described in this report on APRIL 20, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB7525 1BNA PA2159
(Authorized Inspector) (National Board (incl. Endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 247-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # V98575 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos: 72-H-715-3-C (mfr's serial no.) 3005 (original National Board no.) Pa 480718 (jurisdiction no.) 2E103C (other) 1976 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION. (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-247-001 : PLACE AREA OF EROSION BY WELDING USING FLUSH PATCH.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION. ULTRA SONIC WELD EXAMINATION PERFORMED. ISLT PERFORMED WITH EXTRACTION STEAM IN SERVICE AT A NORMAL TEMPERATURE 293° F AND 45 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector). (National Board (incl. Endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv / Site Modfioations Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on JAN. 26, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA2159
(Authorized Inspector) (National Board (incl. Endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [x] REPAIR OR [ ] ALTERATION 248-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) SEE DESCRIPTION OF WORK (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMETEX INC

5. Identifying nos: A-1165 (mfr's serial no.) 3283 (original National Board no.) (jurisdiction no.) 2E118A (other) 1974 (year built)

6. Description of work: REPAIR HEAT EXCHANGER DUE TO EROSION/CORROSION. (use back, seperate sheet, or sketch if necessary)

WA P74205 / CODE FORM 98-248-001 : WELD REPAIRED END BELL, WATER BOX AND END COVER PLATE.
WA P74205 / CODE FORM 98-248-007 : REPLACED STUDS AND NUTS TO MATCH DESIGN DRAWINGS.
WA P74205 / CODE FORM 98-248-010 : PERFORMED BASEMETAL BUILD-UP ON WATER BOX, REPLACED INLET AND OUTLET NOZZLE PIPE AND FLANGE.
WA P81613 / CODE FORM 98-248-015 : PERFORMED BASEMETAL REPAIR ON GASKET SEATING SURFACE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

Remarks:

8. HEAT EXCHANGER PM HAS MAINTAINED AS DESIGNED CONFIGURATION.
NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFOMED WITH SERVICE WATER SYSTEM AT NORMAL TEMPERATURE OF 87° F AND 145 PSIG. WA P81613 ISLI ONLY PERFORMED.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this _____ conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on APRIL 27, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA . PA 2059
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [x] REPAIR OR [ ] ALTERATION 248-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) SEE DESCRIPTION OF WORK (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMETEX INC

5. Identifying nos: A-1171 (mfr's serial no.) 3327 (original National Board no.) (jurisdiction no.) 2E118B (other) 1974 (year built)

6. Description of work: REPAIR HEAT EXCHANGER DUE TO EROSION/CORROSION. (use back, seperate sheet, or sketch if necessary)

WA P71992 / CODE FORM 97-248-001 : REPLACED COUPLING ON EAST END PLATE BY WELDING.
WA P74301 / CODE FORM 98-248-004 : PERFORMED BASEMETAL BUILD-UP ON WATER BOX.
WA P74301 / CODE FORM 98-248-005 : PERFORMED BASEMETAL BUILD-UP ON WATER BOX, REPLACED INLET AND OUTLET NOZZLE PIPE AND FLANGE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

Remarks:

8. HEAT EXCHANGER PM HAS MAINTAINED AS DESIGNED CONFIGURATION. NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFOMED WITH SERVICE WATER SYSTEM AT NORMAL TEMPERATURE OF 87° F AND 145 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this _____ conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * _____ of NORWOOD, MASS. has inspected the work described in this report on July 8, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [x] REPAIR OR [ ] ALTERATION 248-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) SEE DESCRIPTION OF WORK (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMETEX INC

5. Identifying nos: A-1166 (mfr's serial no.) 3284 (original National Board no.) (jurisdiction no.) 2E118C (other) 1974 (year built)

6. Description of work: REPAIR HEAT EXCHANGER DUE TO EROSION/CORROSION. (use back, separate sheet, or sketch if necessary)

WA P62147 / CODE FORM 96-248-003 : REPLACED COUPLING ON END BELL.
WA P74205 / CODE FORM 98-248-002 : WELD REPAIRED END BELL, WATER BOX AND END COVER PLATE.
WA P74205 / CODE FORM 98-248-008 : REPLACED STUDS AND NUTS TO MATCH DESIGN DRAWINGS.
WA P74205 / CODE FORM 98-248-011 : PERFORMED BASEMETAL BUILD-UP ON WATER BOX, REPLACED INLET AND OUTLET NOZZLE PIPE AND FLANGE.
WA P81613 / CODE FORM 98-248-016 : PERFORMED BASEMETAL REPAIR ON GASKET SEATING SURFACE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

Remarks:

8. HEAT EXCHANGER PM HAS MAINTAINED AS DESIGNED CONFIGURATION.
NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING FOR CODE CONTROL FORM 98-248-002 & 98-248-011.
ISLT PERFOMED WITH SERVICE WTR SYS AT NORMAL TEMPERATURE OF 87° F AND 145 PSIG FOR ALL WORK.

NB-66
Rev. 5

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this _____ conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv / Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on April 27, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [x] REPAIR OR [ ] ALTERATION 248-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) SEE DESCRIPTION OF WORK (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMETEX INC

5. Identifying nos: A-1172 (mfr's serial no.) 3328 (original National Board no.) (jurisdiction no.) 2E118D (other) 1974 (year built)

6. Description of work: REPAIR HEAT EXCHANGER DUE TO EROSION/CORROSION. (use back, seperate sheet, or sketch if necessary)

WA P71992 / CODE FORM 97-248-002 : REPLACED COUPLING ON END BELL AND WELD BUILD-UP DIVIDER PLATE AND WATER BOX.

WA P74301 / CODE FORM 98-248-013 : REPLACED STUDS AND NUTS TO MATCH DESIGN DRAWINGS.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

Remarks:

8. HEAT EXCHANGER PM HAS MAINTAINED AS DESIGNED CONFIGURATION.

NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFOMED WITH SERVICE WATER SYSTEM AT NORMAL TEMPERATURE OF 87° F AND 145 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this _____ conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on OCT 27, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 13NA PA2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [x] REPAIR OR [ ] ALTERATION 248-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) SEE DESCRIPTION OF WORK (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMETEX INC

5. Identifying nos: A-1170 (mfr's serial no.) 3326 (original National Board no.) (jurisdiction no.) 2E118E (other) 1974 (year built)

6. Description of work: REPAIR HEAT EXCHANGER DUE TO EROSION/CORROSION. (use back, separate sheet, or sketch if necessary)

WA P74205 / CODE FORM 98-248-003 : WELD REPAIRED END BELL, WATER BOX AND END COVER PLATE.
WA P74205 / CODE FORM 98-248-009 : REPLACED STUDS AND NUTS TO MATCH DESIGN DRAWINGS.
WA P74205 / CODE FORM 98-248-012 : PERFORMED BASEMETAL BUILD-UP ON WATER BOX, REPLACED INLET AND OUTLET NOZZLE PIPE AND FLANGE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

Remarks:

8. HEAT EXCHANGER PM HAS MAINTAINED AS DESIGNED CONFIGURATION. NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFOMED WITH SERVICE WATER SYSTEM AT NORMAL TEMPERATURE OF 87° F AND 145 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this _____ conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

,19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on July 8, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 2325 IBNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [x] REPAIR OR [ ] ALTERATION 248-VIII

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) SEE DESCRIPTION OF WORK (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMETEX INC

5. Identifying nos: A-1169 (mfr's serial no.) 3302 (original National Board no.) (jurisdiction no.) 2E118F (other) 1974 (year built)

6. Description of work: REPAIR HEAT EXCHANGER DUE TO EROSION/CORROSION. (use back, separate sheet, or sketch if necessary)

WA P71992 / CODE FORM 97-248-003 : REPLACED COUPLING ON END BELL AND WELD BUILD-UP DIVIDER PLATE AND WATER BOX.

WA P74301 / CODE FORM 98-248-014 : REPLACED STUDS AND NUTS TO MATCH DESIGN DRAWINGS.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

Remarks:

8. HEAT EXCHANGER PM HAS MAINTAINED AS DESIGNED CONFIGURATION.

NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING. ISLT PERFOMED WITH SERVICE WATER SYSTEM AT NORMAL TEMPERATURE OF 87° F AND 145 PSIG.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned, certifies that the statements made in this report are correct and that all construction and workmanship on this _____ conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A, 19____

Date July 13, 1999 PP&L, Inc Signed _____
(name of alteration organization) Supv. Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * _____ of NORWOOD, MASS. has inspected the work described in this report on Oct 27, 1997 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 264-III

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # P82169 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMERICAN STANDARD

5. Identifying nos: 3-66398-01 (mfr's serial no.) 24907 (original National Board no.) 480735 (jurisdiction no.) 2E126A (other) 1973 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-264-001 : REPAIR CHANNEL FLANGE AND CHANNEL SURFACE
REPLACE THREADED NOZZLE AND DIVIDER PLATE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.
NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING.
* ISLT PERFORMED AT SW SYSTEM PRESSURE 90 PSIG AND TEMP 87°F

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 1999 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS. has inspected the work described in this report on APRIL 15, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of in surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date JULY 13, 1999 Signed _____ Commissions NB 7525 IBNA PA 2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 264-III

as required by the provisions of the National Board Inspection Code

1. Work performed by PP& L Inc. (name of repair or alteration organization) W/A # P82758 (P.O. no., job no., etc.)

Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner PP& L Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification: PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer AMERICAN STANDARD

5. Identifying nos: 87M98652-01-1 (mfr's serial no.) | 38034 (original National Board no.) | 480736 (jurisdiction no.) | 2E126B (other) | 1988 (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION (use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-264-002: REPAIR CHANNEL FLANGE AND CHANNEL SURFACE
REPLACE THREADED NOZZLE AND DIVIDER PLATE.

Pressure test, if applied (See Remarks) psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.
NDE PERFORMED IN LIEU OF HYDROSTATIC TESTING.
* ISLT PERFORMED AT SW SYSTEM PRESSURE 90 PSIG AND TEMP 87°F

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. _____ to use the _____ symbol expires _____, 19____.

Date _____, 19____ _____ Signed _____
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commision issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of _____ and employed by _____ of _____ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date _____, 19____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A

, 19____

Date July 13, 19 99 PP&L,Inc Signed _____
(name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commision issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS, has inspected the work described in this report on April 15, 1999 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warrenty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

* Factory Mutual Engineering Association

Date July 13, 1999 Signed _____ Commissions NB 7525 IBNA PA2159
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

APPENDIX D.2

MODIFICATION GROUP NIS-2 Forms

WORK ABSTRACT

The Site Modifications Group is responsible for preparing Construction Work Authorizations (work packages) for fabrication and installation of design changes in accordance with ASME Section XI. This work is documented on NIS-2 Forms which are submitted herewith.

MODIFICATION INSTALLATION GROUP

Design Change Packages for ASME Section XI (Class 1, 2 and 3) installed in Unit 2 since the completion of the Eighth Refueling Outage through completion of the Ninth Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM / CLASS	DESCRIPTION
95-3013N	244 *	Alteration of Condensate Filtration Vessels 2F135A, B, C, D, E and F
97-3026	245AI	Modified Seating Surface of HV24107A and HV24107B
97-3030	245AII	Replaced Valves 241F039A and 241F039B
95-9071	245AII	Repaired Discs in Valves HV255F006 and
95-9073		HV255F013. Report Resubmitted to Correct Typographical Errors.
97-9020	249AII	Repaired Discs in Valves HV251F028A and HV251F028B
98-3013A	250AII	Modified Pipe Support DBB-221-H19
97-9014	250BII	Replaced HV249F084, Modified SP-HBB-201-3 and Associated Supports
96-9040	250BII	Modified Piping SP-DBB-209-1, 209-2, 209-3, DBB-209-2 and Associated Pipe Supports.
97-9006	252AII	Repaired Valve HV255F042
97-9016	252BII	Replaced Bonnet and Installed a Test Connection on HV255F079.
97-9150	253AII	Modified Pipe Support SP-DCB-201-H58
98-3017	262AI	Modified Pipe Support DLA-202-H4
96-3002B	262AI	Repaired In-Core Monitor Housing 32-09
WA H40679	262AI	Replaced Stem in HV241F022B
97-9113	264BI	Modified Pipe Assembly SP-DCA-251-2 and Associated Supports
97-3018	264BI	Modified Seals on 2P401A and 2P401B
95-9063	283AII	Replace Main Steam Drain Line Level Switches

* National Board Inspection Code alteration of an ASME section VIII vessel in a non-nuclear system.

FORM R-2 REPORT OF ALTERATION

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of alteration organization) OUT-99-1A (Form R No.)
Two North Ninth Street, Allentown, PA 18101-1179 (address)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, PA 18101-1179 (address)

3. Location of installation PP&L, Inc. (name)
Susquehanna Steam Eletric Station - Berwick, PA 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer Mohawk Corp.

5. Identifying nos.: See Note 1 (mfg. serial no.) 9438 Thru 9443 (National Board No.) See Note 2 (jurisdiction no.) (other) 1997 (year built)

6. NBIC Edition/Addenda: 1998 Edition Original Construction Code: 1995/1995A (incl. edition and addenda)

7. Description of work: (use supplemental sheet, Form R-4, if necessary)

Mechanically assembled filter shell to tubesheet on six identical vessels. Re-calculated the 72" OD "special" RF weld neck body flange due to dimensional changes made to the Flexitallic style gasket. The new style gasket has been installed in either side of the tubesheet to proved the gasket design as required by the ASME Code Section VIII, Div. 1. A 1 1/2 time hydrostatic test was performed.

Pressure Test, if applied 1110 psi

8. Replacement Parts. Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

Manufacturer's Data Report for each of the six (6) vessel is attached.

(name of part, item number, data report type, mfr.'s name and identifying stamp)

9. Remarks:

Note1: Serial Number F7190-7 thru F7190-12

Note 2 Jurisdiction Number 538878-98 thru 538883-98

TUBE SHEET HEAT NUMBERS:

vessel Serial No. F-7190 -7	Tube Sheet Heat No. M9729
Vessel Serial No. F-7190 -8	Tube Sheet Heat No. B0260
Vessel Serial No. F-7190 -9	Tube Sheet Heat No. M9729
Vessel Serial No. F-7190 -10	Tube Sheet Heat No. B0260
Vessel Serial No. F-7190 -11	Tube Sheet Heat No. B0260
Vessel Serial No. F-7190 -12	Tube Sheet Heat No. M9729

Form R-2 (back)

(Form R No.)

DESIGN CERTIFICATION

I, Ruben D. Choug, certify that to the best of my knowledge and belief the statements in this report are correct and that the Design Change described in this report conforms to the National Board Inspection Code.

National Board "R" Certificate of Authorization No. 2598 expires on 12/28, 2000

Date 7/16, 1999 PP&L, INC Signed Ruben D. Choug

(name of design organization) (authorized representative)

CERTIFICATE OF DESIGN CHANGE REVIEW

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 PROTECTION MUTUAL INSURANCE Co * of NORWOOD, MASSACHUSETTS have reviewed the design change as described in this report and state that to the best of my knowledge and belief such change 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 7/8, 19 99 Signed David Daullary Commissions NB 7525/BNA PA 2159

(inspector) (National Board (incl endorsements), and jurisdiction, and no.)

CONSTRUCTION CERTIFICATION

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 Alteration conform to the National Board Inspection Code.

National Board "R" Certificate of Authorization No. 2598 expires on 12/18, 2000

Date 7/16, 19 99 PP&L, INC Signed Ruben D. Choug

(name of alteration organization) (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 PROTECTION MUTUAL INSURANCE Co * of NORWOOD, MASSACHUSETTS have inspected the work described in this report on 7/8, 19 99 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 7/8, 19 99 Signed David Daullary Commissions NB 7525/BNA PA 2159

(inspector) (National Board (incl endorsements) and jurisdiction, and no.)

* FACTORY MUTUAL ENGINEERING ASSOCIATION

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 July 8, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3026, WA's C83348, C83349, C83352, C83353 (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 Feedwater System 245A, CL. 1

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve	Anchor Darling	E5820-2-2	N/A	HV24107A	1975	Repaired	Yes
24" Check Valve	Anchor Darling	E5820-2A-2	N/A	HV24107B	1975	Repaired	Yes
24" Check Valve Disc	Anchor Darling	E5820-2-2, Disc S/N R881	N/A	HV24107A	1975	Replaced	Yes
24" Check Valve Disc	BWIP	E5820-2-2, Disc S/N 3	N/A	241818A	1998	Replacement	Yes
24" Check Valve Indicator Stuffing Box	Anchor Darling	E5820-2-2, Stuffing Box HT# 40991	N/A	HV24107A	1975	Replaced	Yes
24" Check Valve Hinge Pin Cover	BWIP	E5820-2-2, Cover HT# B454	N/A	241818A	1998	Replacement	No
24" Check Valve Ind. Stuff Box Stud	Anchor Darling	E5820-2-2, Stuff Stud HT# 8096471	N/A	HV24107A	1975	Replaced	Yes

7. Description of Work SEE REMARKS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1000 psi Test Temp. 319 °F SE-245-301

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 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: July 8, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 3

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3026, WA's C83348, C83349, C83352, C83353 (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: Feedwater System 245A, CL. 1

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve	Anchor Darling	E5820-2-2	N/A	HV24107A	1975	Repaired	Yes
24" Check Valve	Anchor Darling	E5820-2A-2	N/A	HV24107B	1975	Repaired	Yes
24" Check Valve Disc	Anchor Darling	E5820-2-2, Disc S/N R881	N/A	HV24107A	1975	Replaced	Yes
24" Check Valve Disc	BWIP	E5820-2-2, Disc S/N 3	N/A	241818A	1998	Replacement	Yes
24" Check Valve Indicator Stuffing Box	Anchor Darling	E5820-2-2, Stuffing Box HT# 40991	N/A	HV24107A	1975	Replaced	Yes
24" Check Valve Hinge Pin Cover	BWIP	E5820-2-2, Cover HT# B454	N/A	241818A	1998	Replacement	No
24" Check Valve Ind. Stuff Box Stud	Anchor Darling	E5820-2-2, Stuff Stud HT# 8096471	N/A	HV24107A	1975	Replaced	Yes

7. Description of Work: SEE REMARKS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1000 psi Test Temp. 319 °F SE-245-301

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 97-3026). Installed new Seat Rings by Welding into existing valves HV24107A/B, along with new valve internals. The valve identification was also changed for this DCP. HV24107A is now identified as 241818A & HV24107B is now identified as 241818B.

Replacement Valve Disc's Contruction Code ASME III 1971, W'72

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT and 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 N/A

Signed [signature] Date July 12, 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, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 9-1-98 to 4-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP & L Inc. (Name) — Date July 8, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 3

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3026, WA's C83348, C83349, C83352, C83353 (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 Feedwater System 245A, CL. 1

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve Cover Stud	BWIP	E5820-2-2, Cover Stud HT# Y9 (88147-GP)	N/A	241818A	1998	Replacement	No
24" Check Valve Ind. Stuff Box Nut	Anchor Darling	E5820-2-2, Stuff Nut HT# 44468	N/A	HV24107A	1975	Replaced	Yes
24" Check Valve Cover Nut	BWIP	E5820-2-2, Cover Nut HT# F13 (NU243033)	N/A	241818A	1998	Replacement	No
24" Check Valve Disc	Anchor Darling	E5820-2A-2, Disc S/N R879	N/A	HV24107B	1975	Replaced	Yes
24" Check Valve Disc	BWIP	E5820-2A-2, Disc S/N 4	N/A	241818B	1998	Replacement	Yes
24" Check Valve Indicator Stuffing Box	Anchor Darling	E5820-2A-2, Stuffing Box HT# 40991	N/A	HV24107B	1975	Replaced	Yes
24" Check Valve Hinge Pin Cover	BWIP	E5820-2A-2, Cover HT# B454	N/A	241818B	1998	Replacement	No
24" Check Valve Ind. Stuff Box Stud	Anchor Darling	E5820-2A-2, Stuff Stud HT# 8096471	N/A	HV24107B	1975	Replaced	Yes
24" Check Valve Cover Stud	BWIP	E5820-2A-2, Cover Stud HT# Y9 (88147-GP)	N/A	241818B	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) Date July 8, 1999

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) DCP 97-3026, WA's C83348, C83349, C83352, C83353 (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 Feedwater System 245A, CL. 1

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, . Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve Ind. Stuff Box Nut	Anchor Darling	E5820-2A-2, Stuff Nut HT# X44468	N/A	HV24107B	1975	Replaced	Yes
24" Check Valve Cover Nut	BWIP	E5820-2A-2, Cover Nut HT# F13 (NU243033)	N/A	241818B	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., P.O. 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 - 3 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C33407 Drawing Prepared by BW/IP International, Inc. Valve Division

(b) Description of Part Inspected Disc Heat #F8075 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W '72, 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-6

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 4/14, 19 98 Signed BW/IP International, Inc. Valve Division By R L Stannett
(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 2-20-92 thru 4-14-92 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4-14, 19 98

Charles Young
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 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

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., P. O. 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 - 4 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C33407 Drawing Prepared by BW/IP International, Inc. Valve Division

(b) Description of Part Inspected Disc Heat #F8075 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W '72, 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-6

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 4/14 19 98 Signed BW/IP International, Inc. Valve Division By R L Stannett
(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 2-20-98 thru 4-14-98 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4-14 19 98

Charles Young
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 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 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 July 2, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3030, WA's C83271, C83272, C83273, C83274, C83275, C83282, C83284, V90855 (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 Feedwater System 245A, CL. 2

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 Code Case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Check Valve	Anchor Darling	E5853-82-2	N/A	241F039A	1975	Replaced	Yes
3" Check Valve	BWIP	E242A-6-1	N/A	241F039A	1998	Replacement	Yes
3" Check Valve, Replaced Retaining Ring	BWIP	E242A-6-1	N/A	241F039A	1999	Replacement	No
3" Check Valve	Anchor Darling	E5853-82-1	N/A	241F039B	1975	Replaced	Yes
3" Check Valve	BWIP	E242-6-2	N/A	241F039B	1998	Replacement	Yes
Large Pipe Assembly	Bechtel	N/A	N/A	DBB222-1	1983	Replaced	Yes
Large Pipe Assembly	PP & L	N/A	N/A	DBB222-1	1999	Replacement	No

7. Description of Work Replaced 3" check valves 241039A/B and piping. Replaced pipe plug in Valves 241021A/B.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 1054 psi Test Temp. 160 °F SE-200-002

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED
Applicable Manufacturer's Data Reports to be attached

Replaced Pipe Plug on each Valve 241021A/B and performed an MT Inspection of the completed Installation Weld. Replaced bolting for DBB222-H65 & H66.

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 8, 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, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 11-2-98 to 4-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

* Factory Mutual Engineering Association

[signature]
Inspector's Signature

Commissions NB 7525 IBNA PA2159
National Board, State, Province, and Endorsements

Date July 12, 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 PP & L Inc. (Name) — Date July 2, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3030, WA's C83271, C83272, C83273, C83274, C83275, C83282, C83284, V90855 (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 Feedwater System 245A, CL. 2

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 Code Case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Check Valve	Anchor Darling	E5853-82-2	N/A	241F039A	1975	Replaced	Yes
3" Check Valve	BWIP	E242A-6-1	N/A	241F039A	1998	Replacement	Yes
3" Check Valve, Replaced Retaining Ring	BWIP	E242A-6-1	N/A	241F039A	1999	Replacement	No
3" Check Valve	Anchor Darling	E5853-82-1	N/A	241F039B	1975	Replaced	Yes
3" Check Valve	BWIP	E242-6-2	N/A	241F039B	1998	Replacement	Yes
Large Pipe Assembly	Bechtel	N/A	N/A	DBB222-1	1983	Replaced	Yes
Large Pipe Assembly	PP & L	N/A	N/A	DBB222-1	1999	Replacement	No

7. Description of Work Replaced 3" check valves 241039A/B and piping. Replaced pipe plug in Valves 241021A/B.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1054 psi Test Temp. 160 °F SE-200-002

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

FORM NIS-2 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 July 2, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3030, WA's C83271, C83272, C83273, C83274, C83275, C83282, C83284, V90855 (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 Feedwater System 245A, CL. 2.

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 Code Case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Manual Gate Valve Pipe Plug	Anchor Darling	E6734-2-3	N/A	241021A	1986	Replaced	No
3" Manual Gate Valve, Replace Pipe Plug	Anchor Darling	E6734-2-3, Pipe Plug HT# 83R	N/A	241021A	1996	Replacement	No
3" Manual Gate Valve Pipe Plug	Anchor Darling	E6734-2-4	N/A	241021B	1986	Replaced	No
3" Manual Gate Valve, Replace Pipe Plug	Anchor Darling	E6734-2-4, Pipe Plug HT# 83R	N/A	241021B	1996	Replacement	No
Pipe Support, Bolting	Bechtel	N/A	N/A	DBB222-H65	1983	Replaced	No
Pipe Support, Replaced Bolting	PP & L	N/A	N/A	DBB222-H65	1999	Replacement	No
Pipe Support, Bolting	Bechtel	N/A	N/A	DBB222-H66	1983	Replaced	No
Pipe Support, Replaced Bolting	PP & L	N/A	N/A	DBB222-H66	1999	Replacement	No

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by BW/IP International, Inc., Valve Division, 701 First St., Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. E242A

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101-1149 (Name and Address) Order No. 7-21398-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna Station, PO Box 467, Berwick, PA 18603

5. ~~Pump xx~~ Valve Identification E242A-6-2

3" - 900# Swing Check Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. W9725010 R/B Prepared by BW/IP International, Inc.

(b) National Board No. N/A

6. Design Conditions 1740 / 2160 (Pressure) psi 565 / 100 (Temperature) °F

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

Edition 1971, Addenda Date Winter '72, Case No. --

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT - B5813	SA216-WCB	Quaker Alloy Inc.	
S/N - Y550			
(b) Forgings			
Bonnet HT - 217P288	SA105	Patriot Forge	
S/N - 13			
Disc HT - F8929	SA105	Patriot Forge	
S/N - 6			
Gasket Retainer HT - 217P288	SA105	Patriot Forge	
PC #4			
Hinge Pin Cover HT - B298	SA105	Timken Co.	

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Studs HT - 8074662	SA193-B7	Allied Nut & Bolt Co., Inc.	
Cover Nuts HT - 662975	SA194-2H	Allied Nut & Bolt Co., Inc.	
(d) Other Parts			
N/A			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at BW/IP Int'l, Valve Div., 701 First St., WMSPT, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 019525E

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

(1) Signature not required. List name only.

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

Date 3/27 19 98 Signed BW/IP Int'l, Inc. (Manufacturer) By R L Stannett

Certificate of Authorization No. N1712 expires 4/15/98

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Province~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass have inspected the equipment described in this Data Report on 3-30 19 98, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-30 19 98

Charles Young (Inspector)

Charles Young

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

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by BW/IP International, Inc., Valve Division, 701 First St., Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. E242A

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101-1149 (Name and Address) Order No. 7-21398-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna Station, PO Box 467, Berwick, PA 18603

5. ~~Pump or~~ Valve Identification E242A-6-1

3" - 900# Swing Check Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. W9725010 R/B Prepared by BW/IP International, Inc.

(b) National Board No. N/A

6. Design Conditions 1740/2160 (Pressure) psi 565/100 (Temperature) °F

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

Edition 1971, Addenda Date Winter '72, Case No. --

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT - B5813	SA216-WCB	Quaker Alloy Inc.	
S/N - Y551			
(b) Forgings			
Bonnet HT - 217P288	SA105	Patriot Forge	
S/N - 12			
Disc HT - F8929	SA105	Patriot Forge	
S/N - 5			
Gasket Retainer HT - 217P288	SA105	Patriot Forge	
PC #3			
Hinge Pin Cover HT - B298	SA105	Timken Co.	

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	Cover Studs HT - 8074668	SA193-B7	Allied Nut & Bolt Co., Inc.	
	Cover Nuts HT - 662975	SA194-2H	Allied Nut & Bolt Co., Inc.	
(d)	Other Parts			
	N/A			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at BW/IP Int'l, Valve Div., 701 First St., WMSPT, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 019525E

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

(1) Signature not required. List name only.

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

Date 3/27 19 98 Signed BW/IP Int'l, Inc. (Manufacturer) By R L Stannett

Certificate of Authorization No. N1712 expires 4/15/98

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Province~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass have inspected the equipment described in this Data Report on 1-23 thru 3-30 19 98, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-30 19 98

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

245AII
corrected

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 06/02/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 95-9071 (WA C63186) DCP 95-9073 (WA C63187) (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 Feedwater System - 245A Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, 1516-1 & 1534 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	Anchor Darling	S/N E5853-49-1	N/A	HV-255-F006 - disc S/N E959	1976	Repaired	YES
Valve	Anchor Darling	S/N E5853-57-1	N/A	HV-255-F013 - disc S/N 3AB	1975	Repaired	YES

7. Description of Work 1/8" hole drilled into Reactor Vessel side of disc

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑
Other ☐ Pressure 1025 psi Test Temp. 180/183 °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 Corrected serial number typographical error for valve HV-255-F006.

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 July 8 , 19 99

Owner or Owner's Designee, Title Supv. Site Modifications Group

6/21/99

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 MUTUALINSURANCE CO of NORWOOD, MASS have inspected the components described in this Owner's Report during the period 3-12-96 to 7-23-96, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA2159

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

Date 19

* FACTORY MUTUAL ENGRG. ASSOC.

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 June 16, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — DCP No. 97-9020, W.O. #C83472, #C83473 (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 RHR System, Pool Spray, Pumps and Auxiliaries, 249A, Class 2

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, 1516-1, 1534 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Disc	Anchor Darling	E5844-39-1 (S/N R653)	N/A	HV251F028A	1976	Repair	Yes
Bonnet	Anchor Darling	E5844-39-1 (S/N R1070)	N/A	HV251F028A	1976	Repair	Yes
Valve Disc	Anchor Darling	E5854-39-2 (S/N R651)	N/A	HV251F028B	1976	Repair	Yes
Valve (Leakoff Plug)	Anchor Darling	E5854-39-2	N/A	HV251F028B	1976	Replaced	Yes
Valve (Leakoff Plug)	Anchor Darling	E5854-39-2	N/A	HV251F028B	1976	Replacement	No

7. Description of Work

FO28A: 1/8" hole drilled on one side of wedge gate valve disc to relieve the potential for pressure locking. Tongue on bottom of bonnet found damaged. Ground & machined to remove mushroom edges.
FO28B: 1/8" hole drilled on one side of wedge gate valve disc to relieve the potential for pressure locking Leakoff plug interfered with yoke disassembly. Replaced, welded in, and ground flush.

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 _____

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 _____ Date July 8 , 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 PARKRIDGE, ILLINOIS have inspected the components described in this Owner's Report during the period 12-1-98 to 4-3-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 July 12 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 PP&L, Inc. (Name) Date 16 June, 1999

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) WA C83492 DCP 98-3013A (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 RCIC Water Loop System, Class 2

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)
PIPE SUPPORT	BECHTEL	N/A	N/A	DBB221-H19	1982	REPLACED	NO
PIPE SUPPORT	PPL	N/A	N/A	DBB221-H19	1999	REPLACEMENT	NO

7. Description of Work Modified Pipe Support to obtain additional clearance at existing conduit

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure NONE psi Test Temp. NONE °F

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

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (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 8, 19 99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5-10-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

* Factory Mutual Engineering Association

[signature] Inspector's Signature

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

Date _____ 19 _____

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 July 2, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-9014, WAs C73749, C73750, C73753 (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 RCIC Turbine and Auxiliary – 250B 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, 2) Small Pipe Assembly	PP&L	N/A	N/A	SPHBB201-3	1999	REPLACEMENT	NO
3) ¼", 150#, BALL VALVE	BNL	A971004-1-3	N/A	249026	1998	REPLACEMENT	YES
3) 2", 1500#, FLEXWEDGE GATE VALVE	BORG WARNER	21002	N/A	HV249F084	1977	REPLACED	YES
3) 2", 1500#, FLEXWEDGE GATE VALVE	BW/IP	E221A-1-2	N/A	HV249F084	1998	REPLACEMENT	YES
3) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBB201-H6	1983	REPLACED (deleted)	NO
3)SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBB201-H11	1983	REPLACED	NO
3)SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPHBB201-H11	1999	REPLACEMENT	NO

7. Description of Work Replaced 2" valve, deleted pipe support, & added a ¼" test connection.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None Required
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufactured's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

repair or replacement

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 8 , 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 1-19-99 to 4-10-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP&Light Inc (Name) — Date July 2, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-9014, WAs C73749, C73750, C73753 (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 RCIC Turbine and Auxiliary – 250B 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

ITEM #	WA #	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
1	C73753	G99-250-004	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Disassemble/Reassemble 2" & ¼" valves	N/A
2	C73750	G99-250-005	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Prefabricate new ¼" test connection piping (SPHBB201-3)	Final NDE IAW NLP-1
3	C73749	G99-250-003	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA for piping ASME SECTION III, 1974 EDITION, NO ADDENDA for ¼" valve ASME SECTION III, 1974 EDITION, WINTER 1974 ADDENDA for 2" valve	Install new 2" valve, ¼" test connection, remove support H6, and rework pipe support H11.	VT-3 (IAW NVT-3) for H11 LLRT of 2" valve & piping per SE-259-099 VT-2 of 2" welds IAW SE-250-301 Press: 46 psig Temp: 78F ISLI of ¼" welds IAW MI-PS-008 VOTES testing of 2" valve IAW WA A81875 Valve Stroke IAW SO-250-004 RPI Check IAW with SO-250-015

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-A2-02-0030 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 (edition) - (addenda date) 2 (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1/4" (in.) Outlet size 1/4" (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.
A971004-1-(1THRU4)		L43	L43	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.

FORM NPV-1 (Back — Pg. 2 of 2)

A971004-1-(1THRU4)

Certificate Holder's Serial No. _____

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 150# (1)
(pressure) (temperature)

9. Cold working pressure 150PSIG @ 100F psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 315 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 02/02/98 Name BNL INDUSTRIES, INC. Signed _____
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS. of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 02/02/98, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 2-2-98 Signed _____ Commissions CT 1343
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by BW/IP International, Inc. Valve Division 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. E221A

2. Manufactured for Pennsylvania Power & Light Company Two North Ninth St., Allentown, PA 18101-1149 (Name and Address) Order No. 7-07159-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna Station, P.O. Box 467, Berwick, PA 18603

5. ~~Remarks~~ Valve Identification E221A-1-2

2"-1500#-FW Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. W9724982 R/A Prepared by BW/IP International, Inc. Valve Division

(b) National Board No. N/A

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#B5820	SA216-WCB	Quaker Alloy, Inc.	
S/N 3			
Disc HT.#B5829	SA216-WCB	Quaker Alloy, Inc.	
S/N 13			
(b) Forgings			
Bonnet HT.#217P288	SA105	Patriot Forge, Inc.	
S/N 2			
Gasket Retainer	SA105	Patriot Forge, Inc.	
HT.#217P288			
Piece #2			

Assigned to:-???? FOR INFORMATION ONLY Expires On: \??

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	N/A			
(d)	Other Parts			
	N/A			

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at BW/IP International, Inc. Valve Division, Williamsport, PA

Stress analysis report on file at BW/IP International, Inc., Valve Division, Williamsport, PA

Design specifications certified by E. B. Gerlach (1) Prof. Eng. State PA Reg. No. 35701-E

Stress analysis report certified by R. S. Farrell (1) Prof. Eng. State PA Reg. No. 35216-E

(1) Signature not required. List name only.

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

Date 4/17 19 98 Signed BW/IP International, Inc. Valve Division (Manufacturer) By R L Stannett

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State ~~or Province~~ of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 4-25-97 to 4-20-98, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 4-20 19 98

Charles Young (Inspector)

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

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

1. Owner PP&L Inc (Name) — Date 07/09/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-9040, SEE PAGE 6,7 FOR WA LISTING (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 RCIC Turbine and Auxiliary – 250B Class II

5. (a) Applicable Construction Code SEE PAGE 6,7 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1,2,7) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPDBB209-2	1983	REPLACED	YES
1,2,7) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDBB209-2	1999	REPLACEMENT	NO
3,4) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDBB209-1	1995	REPLACED	YES
3,4) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDBB209-1	1999	REPLACEMENT	NO
4) LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	DBB209-2	1983	REPLACED	YES
4) LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	DBB209-2	1999	REPLACEMENT	NO

7. Description of Work See Page 6,7

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑
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 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 N/A

Signed [signature] Owner or Owner's Designee, Title Supv Site Moodification Group Date July 12 , 19 99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 1-31-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP&L Inc (Name) — Date 07/09/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-9040, SEE PAGE 6,7 FOR WA LISTING (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 RCIC Turbine and Auxiliary – 250B Class II

5. (a) Applicable Construction Code SEE PAGE 6,7 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
5) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPDBB209-3	1983	REPLACED	YES
2,7) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB209-H5001	1983	REPLACED	NO
2,7) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDBB209-H5001	1999	REPLACEMENT	NO
2,7) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB209-H5002	1983	REPLACED	NO
2,7) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDBB209-H5002	1999	REPLACEMENT	NO
2) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDBB209-H5003	1997	REPLACED	NO

7. Description of Work See Page 6,7

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑
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 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 07/09/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-9040, SEE PAGE 6,7 FOR WA LISTING (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 RCIC Turbine and Auxiliary – 250B Class II

5. (a) Applicable Construction Code SEE PAGE 6,7 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDBB209-H5003	1999	REPLACEMENT	NO
2) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBB215-H5002	1983	REPLACED	NO
2) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPHBB215-H5002	1999	REPLACEMENT	NO
2) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBB215-H5004	1983	REPLACED	NO
2) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPHBB215-H5004	1999	REPLACEMENT	NO
3) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB209-H5009	1983	REPLACED	NO
3) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB209-H5010	1983	REPLACED	NO

7. Description of Work See Page 6,7

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑
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 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 07/09/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-9040, SEE PAGE 6,7 FOR WA LISTING (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 RCIC Turbine and Auxiliary – 250B Class II

5. (a) Applicable Construction Code SEE PAGE 6,7 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB209-H5011	1983	REPLACED	NO
5) 1" VALVE	YARWAY	A0724	N/A	1RV-LSH-2N010	1977	REPLACED (Deleted)	YES
5) 1" VALVE	YARWAY	A0646	N/A	2RV-LSH-2N010	1977	REPLACED (Deleted)	YES
5) 1" VALVE	YARWAY	A104	N/A	3RV-LSH-2N010	1977	REPLACED (Deleted)	YES
5) 1" VALVE	YARWAY	A1028	N/A	4RV-LSH-2N010	1977	REPLACED (Deleted)	YES
5) 1" VALVE	YARWAY	5513	N/A	5RV-LSH-1N010 (LSH249N010-Vent)	1977	REPLACED (Deleted)	YES
5) 1" VALVE	YARWAY	5373	N/A	6RV-LSH-2N010 (LSH249N010-Drain)	1977	REPLACED (Deleted)	YES

7. Description of Work See Page 6,7

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑
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 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 07/09/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-9040, SEE PAGE 6,7 FOR WA LISTING (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 RCIC Turbine and Auxiliary – 250B Class II

5. (a) Applicable Construction Code SEE PAGE 6,7 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6,) 1" VALVE	MASONEILAN	N00154-2-2	N/A	HV249F025	1976	REPLACED	YES
6,7) 1" VALVE (Stem/Plug Assembly)	MASONEILAN	RIR 97-0354 (013431-122-1J7) Plug SN# 20 Stem SN# 6	N/A	HV249F025	1999	REPLACEMENT	YES
6,7) 1" VALVE	MASONEILAN	N00154-3-2	N/A	HV249F026	1976	REPLACED	YES
6,7) 1" VALVE (Stem/Plug Assembly)	MASONEILAN	RIR 96-0487 (013431-122-1J7) Plug Ht#: 1810-1-1039-14 Stem Ht#: A4734-1	N/A	HV249F026	1999	REPLACEMENT	YES

7. Description of Work See Page 6,7

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑
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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

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

Date: 07/12/99

Sheet: 6 of 7

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

Unit: ONE

DCP 97-9060, SEE PAGE 6,7 FOR WA LISTING
(Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RCIC Turbine and Auxiliary - 250B Class II

5. (a) Applicable Construction Code: SEE PAGE 6,7 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM #	WA #	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
1	C63220	G96-250-094	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	PIPING & support Prefabrication (SPDBB209-2)	VT-2 PER SE-250-301 Press: 1020 psig Temp: 548F
2	C63701	G96-250-095	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Install new piping & supports (SPDBB209-2)	VT-2 PER SE-250-301 Press: 1020 psig Temp: 548F
3	C83496	G99-250-006	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Piping Prefabrication (SPDBB209-1)	VT-2 PER SE-250-301 Press: 1020 psig Temp: 548F
4	C83497	G99-250-008	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Install new level switch & piping (SPDBB209-1)	None
5	C83495	G99-250-007	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Removed 1" valves, Piping (SPDBB209-1), pipe supports, and old level switch	None
6	C63700	G99-250-021	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Disassemble/inspect/ Reassemble F025 & F026	Non-VT2 per MI-PS-008 Press: 1020 psig Temp: 548F

7. Description of Work: See Page 6,7

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

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

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

1. Owner PP&L Inc (Name) — Date 07/12/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 7 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-9040, SEE PAGE 6,7 FOR WA LISTING (Repair Organizaton 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 RCIC Turbine and Auxiliary – 250B Class II

5. (a) Applicable Construction Code SEE PAGE 6,7 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM #	WA #	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
7	C63221	G99-250-020	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Cut out to relocate F025, F026	Non-VT2 per MI-PS-008 Press: 1020 psig Temp: 548F

7. Description of Work See Page 6,7

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

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

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

1. Owner PP&L Inc. (Name) — Date April 20, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP No. 97-9016, W.O. # C73758, C73759, C73761 C73386 (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 High Pressure Coolant Injection System 252B, Class 2

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 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)
Valve Bonnet	Anchor Darling	E5854-92-1	N/A	HV255F079	1976	Replaced	Yes
Valve Bonnet	BW/IP	SN 2	N/A	HV255F079	1998	Replacement	Yes
Plug, valve leakoff	Bonney Forge	HT# DF78	N/A	HV255F079	1988	Replacement	No
Valve, 1/4" ball	BNL	A971004-1-4	N/A	255052	1997	Replacement	Yes
Small Pipe assembly	PP&L	N/A	N/A	SPHBB208-2	1997	Replacement	No

7. Description of Work Installed new 1/4" test connection on HV255F079

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 46.3 psig Test Temp. 76.7 °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) Date April 20, 1999

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) DCP No. 97-9016, W.O. # C73758, C73759, C73761 C73386 (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 High Pressure Coolant Injection System 252B, Class 2

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 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)
Valve Bonnet	Anchor Darling	E5854-92-1	N/A	HV255F079	1976	Replaced	Yes
Valve Bonnet	BW/IP	SN 2	N/A	HV255F079	1998	Replacement	Yes
Plug, valve leakoff	Bonney Forge	HT# DF78	N/A	HV255F079	1988	Replacement	No
Valve, 1/4" ball	BNL	A971004-1-4	N/A	255052	1997	Replacement	Yes
Small Pipe assembly	PP&L	N/A	N/A	SPHBB208-2	1997	Replacement	No

7. Description of Work Installed new 1/4" test connection on HV255F079

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 46.3 psig Test Temp. 76.7 °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

BNL Valve Construction Code ASME Section III, 1974 Edition

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 8, 19 99

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 PARKRIDGE, ILLINOIS have inspected the components described in this Owner's Report during the period 11-17-98 to 4-10-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP&L Inc. (Name) — Date April 17, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — (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 High Pressure Coolant Injection System 252B, Class 2

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Item #	WA#	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
1	C73758	G98-252-075	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Install new valve bonnet on HV255F079	N/A
2	C73759	G98-252-074	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Install new 1/4" test connection on HV255F079	LLRT PER SE-259-098 VT-2 of valve bonnet and SPHBB208-2 with 1/4" ball valve Press: 46.3 psig Temp: 76.7 F

7. Description of Work

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 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.

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., Two North NInth St., Allentown, PA 18101
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 2 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D13943 Drawing Prepared by BW/IP Int'l, Inc.

(b) Description of Part Inspected Bonnet Heat #C6986 SA216-WCB

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W '72, Case No. -- Class 2

3. Remarks: 3" - 150# FW Gate
(Brief description of service for which component was designed)

BW/IP Shop Order - E212A-1

Note: No Bonnet Hydro performed.

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

Date 4/7, 19 98 Signed BW/IP International, Inc. Valve Division By R L Hammett
(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~~ 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 2-16-98 thru 4-7-98 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4-7 19 98

Charles Young
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 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

Assigned to: ????

FOR INFORMATION ONLY

Expires On:

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-A2-02-0030 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 (edition) - (addenda date) 2 (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1/4" (in.) Outlet size 1/4" (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.
A971004-1-(1THRU4)		L43	L43	K90

* 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)

A971004-1-(1THRU4)

Certificate Holder's Serial No. _____

8. Design conditions _____ (pressure) psi _____ (temperature) °F or valve pressure class ANSI 150# (1)

9. Cold working pressure 150PSIG @ 100F psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 315 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 02/02/98 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 02/02/98, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 2-2-98 Signed _____ (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) Date June 16, 1999

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) DCP No. 97-9006, W.O. # C83344 (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 High Pressure Coolant Injection System 252A, Class 2

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, 1516-1, 1534 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)
Valve	Anchor Darling	E5854-52-1 (Disc S/N 2)	N/A	HV255F042	1975	Repaired	Yes
Valve	Anchor Darling	E5854-52-1	N/A	HV255F042	1975	Replaced	Yes
Valve	Anchor Darling	E5854-52-1	N/A	HV255F042	1975	Replacement	No

7. Description of Work 1/8" hole drilled on one side of wedge gate valve disc to relieve the potential for pressure locking. Replaced missing stud (7/8-9, 5" long) and two heavy hex nuts (7/8-9).

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

Applicable Manufacturer's Data Reports to be attached

NONE

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 8 ,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 PARKRIDGE, ILLINOIS have inspected the components described in this Owner's Report during the period 11-20-98 to 4-2-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP&L Inc. (Name) — Date July 2, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-9150, WA C83023 (Repair Organizaton 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 Standby Liquid Control – 253A (Class II)

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No..	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pipe Support	Bechtel	N/A	N/A	SPDCB201-H58	1983	Replaced	No
Pipe Support	PP&L	N/A	N/A	SPDCB201-H58	1998	Replacement	No

7. Description of Work Weld tubing clamp to pipe support steel

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

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (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 8 , 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 2-10-98 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 IBNA PA 2159

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

Date July 12 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 PP & L Inc. (Name) Date June 14, 1999

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) DCP 98-3017, WA C83415 (Repair Organizaton 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 Reactor Vessel 262A, CL. 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)
Pipe Support	Bechtel	N/A	N/A	DLA202-H4	1983	Replaced	No
Pipe Support	PP & L	N/A	N/A	DLA202-H4	1999	Replacement	No

7. Description of Work Weld new SPJBD2099-H5 to existing DLA202-H4.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (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 _____ Date July 8, 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, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5-10-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

_____ Commissions NB 7525 IBNA PA 21579
Inspector's Signature National Board, State, Province, and Endorsements

Date July 12 1999

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 May 28, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 96-3002B, WA C83463 (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 VESSEL 262A, 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-137

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. G98-262-079

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 N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 8, 19 99

6/28/99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5-10-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

* Factory Mutual Engineering Association

[signature] Inspector's Signature

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

Date July 12 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 PP&L,Inc. (Name) — Date September 23,1998

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — WA H40679 (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 Reactor Vessel System, 262A Class I

5. (a) Applicable Construction Code III 19 71 Edition, thru S'72 Addenda, 1535-2 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)
Main Steam Isolation Valve	Atwood & Morrill	12-221	N/A	HV241F022B	1974	Replaced	Yes
Main Steam Isolation Valve (Valve Stem)	Atwood & Morrill	7 Valve Stem	N/A	HV241F022B	1994	Replacment	No

7. Description of Work Replaced valve stem

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1039-1041 psi Test Temp. 152 °F per SE-200-002

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

FORM NIS-2 (Back)

9. Remarks Valve stem replaced. Original Design Specification identifies the valve stem as ASME pressure
Applicable Manufacturer's Data Reports to be attached

retaining material. This replacement was mistakenly not reported during the Unit 2 eighth refueling outage summary report. Reference internal audit 97-75. Construction code of replacement stem is ASME Section III 1986 Edition with 1987 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 July 8, 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, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4-28-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 19 99

VALVE AND FLOW CONTROL EQUIPMENT SPECIALISTS
POWER PLANT, OIL & GAS, MARINE & INDUSTRIAL SERVICE

A&M

Atwood and Morrill Co., Inc.

DESIGNERS AND MANUFACTURERS SINCE 1900

285 CANAL STREET - SALEM, MA 01970-4544

TELEPHONE (508) 744-5690
TELEX 94-0299
FAX (508) 741-3626

CERTIFICATE OF COMPLIANCE

DATE: 10-3-94

CUSTOMER NAME: PENN POWER & LIGHT COMPANY

CUSTOMER P.O. NO: 4362841

A&M S.O. NO: 29110

DESCRIPTION:

CUSTOMER ITEM NO.	A&M ITEM NO.	QTY.	DESCRIPTION
01	01	1	VALVE STEM #7 MAT'L: SA564 GR. 630 HTC 1100 HEAT NO. 39600 TR. 9F A&M P/N 32456-508-5215-000 PP&L CATALOG # 11665

No welding has been performed on this item.

This item was processed under A&M's Quality Assurance Manual Rev. 2, Dated 4-1-92, which meets with your P.O. requirements.

The above material has been supplied under A&M's ASME Certificate of Authorization No. N2607, expiration date 6-13-95 and meets the requirements of the ASME Code Class 1, 1986 Edition, 87 Addenda.

We hereby certify that the product described above, shipped against the subject order, conforms to all specifications and instructions in the contract to the best of our knowledge and belief.

Brian D. Sullivan
Q.A. Manager

Q-61/A

9412220754

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 6/22/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) DCP 97-9113, WA C73718 (Repair Organizabon 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 Recirculation Water Loops and Jet Pumps System 264B, Class 1

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 ASSEMBLY	PP&L	N/A	N/A	SP-DCA-251-2	1997	REPLACED	NO
SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-DCA-251-2	1997	REPLACEMENT	NO
1" MANUAL GLOBE VALVE	YARWAY	C0637	N/A	243F034B	1990	REPLACED	YES
1" MANUAL GLOBE VALVE	YARWAY	C0783	N/A	243F035B	1990	REPLACED	YES
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-251-H5004	1983	REPLACED	NO

7. Description of Work Removed piping, 2 valves and eliminated one pipe support. Remaining pipe was capped.

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 _____

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 N/A

Signed _____ Date July 8 , 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, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 9-20-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

_____ Commissions NB 7525 IBNA PA2159

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

Date July 12 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 PP&L, Inc. (Name) — Date May 17, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 97-3018, Byron Jackson, BW/IP, Flowserve P.O. No. 116772-C (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 AND JET PUMP SYSTEM 264B, CLASS I

5. (a) Applicable Construction Code III 19 71 Edition, thru S'71 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) SEAL	BYRON JACKSON	711-S-0801	N/A	N/A	1973	REPAIRED	YES
2) SEAL	BYRON JACKSON	711-S-0802	N/A	2P401A	1973	REPLACED	YES
3) SEAL	BYRON JACKSON	711-S-0801	N/A	2P401A	1973	REPLACEMENT	YES
4) SEAL	BYRON JACKSON	711-S-0804	N/A	2P401B	1974	REPLACED	YES
5) SEAL	BYRON JACKSON	793-W-5468	N/A	2P401B	1981	REPLACEMENT	YES

7. Description of Work MODIFIED SEAL (711-S-0801) TO N7500 DESIGN; REPLACED SEALS IN 2P401A & B

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ VT-2 PER

Other ☐ Pressure 1035/1054 psi Test Temp. 530/160 °F Z80417/SE-200-002

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

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

Seal S/N 711-S-0801 was repaired by OEM per P.O. No. 116772-C (Ref. WA C83241).

The 2P401A pump seal was replaced per WA C83242 and ASME Code Program Form No. 98-264-002.

The 2P401B pump seal was replaced per WA C83252 and ASME Code Program Form No. G98-264-069.

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 8, 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, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4-28-97 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP&L Inc (Name) — Date 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 6

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

PO Box 467, Berwick, PA 18603 (Address) — DCP # 95-9063, WA's C83544 - C83558, C83560 – C83562, C83597 – C83599, C83601 (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 Main Steam, System 283A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, None Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) Pipe Assembly	PP&L	NA	NA	SPDBB201-3	1989	Replaced	No
2) Pipe Assembly	PP&L	NA	NA	SPDBB201-3	1999	Replacement	No
3) Pipe Assembly	PP&L	NA	NA	SPDBB201-2	1995	Replaced	No
4) Pipe Assembly	PP&L	NA	NA	SPDBB201-2	1999	Replacement	No
5) Pipe Assembly	PP&L	NA	NA	SPDBB202-4	1994	Replaced	No
6) Pipe Assembly	PP&L	NA	NA	SPDBB202-4	1999	Replacement	No
7) Pipe Assembly	PP&L	NA	NA	SPDBB202-3	1991	Replaced	No
8) Pipe Assembly	PP&L	NA	NA	SPDBB202-3	1999	Replacement	No

7. Description of Work Replace level switches. Rework supports and root valves.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None Required
Other ☐ Pressure _____ 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] Date , 19

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 12-29-98 to 4-28-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 12 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 PP&L Inc (Name) — Date 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 6

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

PO Box 467, Berwick, PA 18603 (Address) — DCP # 95-9063, WA's C83544 - C83558, C83560 – C83562, C83597 – C83601 (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 Main Steam, System 283A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, None Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
9) Pipe Assembly	PP&L	NA	NA	SPDBB203-3	1997	Replaced	No
10) Pipe Assembly	PP&L	NA	NA	SPDBB203-3	1999	Replacement	No
11) Pipe Assembly	PP&L	NA	NA	SPDBB203-2	1997	Replaced	No
12) Pipe Assembly	PP&L	NA	NA	SPDBB203-2	1999	Replacement	No
13) Pipe Assembly	PP&L	NA	NA	SPDBB204-3	1991	Replaced	No
14) Pipe Assembly	PP&L	NA	NA	SPDBB204-3	1999	Replacement	No
15) Pipe Assembly	PP&L	NA	NA	SPDBB204-2	1997	Replaced	No
16) Pipe Assembly	PP&L	NA	NA	SPDBB204-2	1999	Replacement	No
17) Pipe Assembly	PP&L	NA	NA	SPDBB205-4	1995	Replaced	No
18) Pipe Assembly	PP&L	NA	NA	SPDBB205-4	1999	Replacement	No
19) Pipe Assembly	Bechtel	NA	NA	SPDBB205-5	1983	Replaced	Yes
20) Pipe Assembly	PP&L	NA	NA	SPDBB205-5	1999	Replacement	No
21) Pipe Support	Bechtel	NA	NA	SPDBB201-H8004	1983	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) — Date 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 6

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

PO Box 467, Berwick, PA 18603 (Address) — DCP # 95-9063, WA's C83544 - C83558, C83560 – C83562, C83597 – C83601 (Repair Organizaton 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 Main Steam, System 283A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, None Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
22) Pipe Support	PP&L	NA	NA	SPDBB201-H8004	1999	Replacement	No
23) Pipe Support	Bechtel	NA	NA	SPDBB201-H8006	1983	Replaced	No
24) Pipe Support	PP&L	NA	NA	SPDBB201-H8006	1999	Replacement	No
25) Pipe Support	Bechtel	NA	NA	SPDBB205-H8005	1983	Replaced	No
26) Pipe Support	PP&L	NA	NA	SPDBB205-H8005	1999	Replacement	No
27) 1"- Valve Stem/Disc Assy/BS Bushing	Yarway	5508	NA	LSH20112C-BTM	1976	Replaced	Yes
28) Stem-Disc Assy/ Backseat Bushing	Yarway/Cyclops	AV94-B11/ HT#5293	NA	LSH20112C-BTM	1998	Replacement	Yes
29)1"- Valve Stem/Disc Assy	Yarway	5987	NA	LSL20108-BTM	1977	Replaced	Yes
30) Stem-Disc Assy/ Backseat Bushing	Yarway/Cyclops	AV94-B9 Ht #5293	NA	LSL20108-BTM	1998	Replacement	Yes
31)1"- Valve Stem/Disc Assy/BS Bushing	Yarway	A8014	NA	4RV-LSHH-20108	1977	Replaced	Yes
32) Stem-Disc Assy/ Backseat Bushing	Yarway/ Cyclops	AV94-B26 Ht # 5293	NA	4RV-LSHH-20108	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) — Date 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 6

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

PO Box 467, Berwick, PA 18603 (Address) — DCP # 95-9063, WA's C83544 - C83558, C83560 – C83562, C83597 – C83599, C83601 (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 Main Steam, System 283A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, None Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM #	WA #	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
5,6	C83544	G98-283-088	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSL-20112A	N/A
7,8	C83548	G98-283-087	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSH-20112A	N/A
7,8	C83552	G98-283-086	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSHH-20112A	N/A
N/A	C83597	N/A	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Pin hangers for "A" Strongback – no repair/replacement work performed.	N/A
1,2	C83545	G98-283-089	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSL-20112B	N/A
3,4	C83549	G98-283-090	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSH-20112B	N/A
3,4	C83553	G98-283-091	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSHH-20112B	N/A
21 – 24	C83598	G98-283-098	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Pin hangers for "B" Strongback – H8004 & H8006 had components replaced.	N/A
13,14	C83546	G98-283-094	ASME SECTION III, 1971 EDITION, WINTER 1972	Replace LSL-20112C	N/A

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 06/22/99

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 6

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

PO Box 467, Berwick, PA 18603 (Address) — DCP # 95-9063, WA's C83544 - C83558, C83560 – C83562, C83597 – C83601 (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 Main Steam, System 283A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, None Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

			ADDENDA		
15,16	C83550	G98-283-093	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSH-20112C	N/A
15,16	C83554	G98-283-092	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSHH-20112C	N/A
N/A	C83599	G98-283-002 (no work performed, not required)	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Pin hangers for "C" Strongback	N/A
9,10	C83547	G98-283-095	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSL-20112D	N/A
11,12	C83551	G98-283-096	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSH-20112D	N/A
11,12	C83555	G98-283-097	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSHH-20112D	N/A
N/A	C83600	N/A	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Pin hangers for "D" Strongback – no repair/replacement work performed.	N/A
17,18	C83556	G98-283-083	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSL-20108	N/A
19,20	C83557	G98-283-084	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSH-20108	N/A
19,20	C83558	G98-283-085	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Replace LSHH-20108	N/A
25,26	C83601	G99-283-001	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Pin hangers for "08" Strongback – H8005 had material replaced	N/A
31,32	C83560	G98-283-081	Original: ASME III 1974 with Winter 1974,	Disassemble/reassemble 4RV-LSHH-20108; replaced	N/A

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 06/22/99

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

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

PO Box 467, Berwick, PA 18603 (Address) — DCP # 95-9063, WA's C83544 - C83558, C83560 – C83562, C83597 – C83601 (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 Main Steam, System 283A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, None Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

			Replacement: ASME III 1986 Edition with no Addenda	backseat bushing & stem/disc assembly	
29,30	C83561	G98-283-080	Original: ASME III 1974 with Winter 1974, Replacement: ASME III 1986 Edition with no Addenda	Disassemble/reassemble LSL-20108-BTM; replaced backseat bushing & stem/disc assembly	N/A
27,28	C83562	G98-283-082	Original: ASME III 1974 with Winter 1974, Replacement: ASME III 1986 Edition with no Addenda	Disassemble/reassemble LSH-20112C-BTM	N/A

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

WIP ORDER 5006907 SALES ORDER NO 2003658

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) 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

Date 5/21/98 Signed _____ (Authorized Inspector) Commissions PA2389 'N' 'S' (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FTI
OP SUP
PBG

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

PIR 98-1460

FRAMATOME TECHNOLOGIES, INC.

CERTIFICATE OF CONFORMANCE
NUCLEAR PARTS CENTER
3315A Old Forest Road
Lynchburg, VA 24501

CUSTOMER/PLANT SITE: PENNSYLVANIA POWER & LIGHT/SUSQUEHANNA
CUSTOMER ORDER NO.: 8-15408-1 CUST. C.O. NO.(S): ---
ORIGINAL/REFERENCED FTI SPECIFICATION/DRAWING (WHEN REQUIRED): ---
NUCLEAR PARTS TECHNICAL DOCUMENT(S): 21-4000934-01
FTI CONTRACT NO: 25200008170 QA DATA PACKAGE NO.: 23-1269556-00
FTI ORDER NO.: 71956 FTI C.O. NO. (S): ---

QTY	CUSTOMER ITEM NO.	FTI P.O ITEM NO.	FTI P/N	DESCRIPTION
20	1	1	1210100-002	BACKSEAT BUSHING Yarway P/N: 937464-96 Heat No. 5293

The item(s) in this order are supplied in accordance with QA Program 56-1151178-18 dated 3/24/98. ASME III, Class 1, ASME Certificate of Authorization No. N-1650 expires 6/21/00. ASME Sect. III 1974 Edition with Winter 1974 Addenda as reconciled by Framatome document Identifier 51-1257731-02 to ASME Section III Class 1, 1986 Edition, No Addenda. Parts are supplied in accordance with Yarway Dwgs. 045122, Rev. D & 045111, Rev. F.

THE FRAMATOME TECHNOLOGIES, INC. HEREBY CERTIFIES THAT THE ITEMS LISTED ABOVE ARE FURNISHED IN ACCORDANCE WITH THE APPLICABLE CODES, SPECIFICATIONS, AND PURCHASE ORDER REQUIREMENTS.

The referenced QA Data Package has been reviewed by FTI QA and found acceptable, except as noted below. Nonconformance to referenced requirements may result in equipment being released to ship in QA HOLD status by the FTI QA Department.

EXCEPTION(S) TO P.O. REQUIREMENTS: N/A

NONCONFORMANCE(S) WILL BE/WAS RESOLVED AS FOLLOWS: N/A

SHIPMENT WAS MADE BECAUSE: N/A

Robert W Dodson
FTI QA REPRESENTATIVE DATE

APPENDIX D.3

SNUBBER REPLACEMENT NIS-2 Forms

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

1. Owner PP&L, Inc. (Name) Date 5/27/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) Maintenance WA 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 283A, Class II, Main Steam 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)
Item 1	Mechanical Shock Arrestor	Pacific Scientific	23045	N/A	SPDBB208H13	1981	Replaced	No
	Mechanical Shock Arrestor	Pacific Scientific	14332	N/A	SPDBB208H13	1980	Replacement	No
Item 2	1 Load Stud	Grinnel	Item #13 (1)	N/A	DBB205H9	*(1)	Replaced	No
	1 Load Stud	Grinnel	Item #13 (1)	N/A	DBB205H9	*(1)	Replacement	No
Item 3	2 Heavy Hex Nuts	Grinnel	Item #14 (1)	N/A	DBB205H9	*(1)	Replaced	No
	2 Heavy Hex Nuts	Grinnel	Item #14 (1)	N/A	DBB205H9	*(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 Replcmnt snub/Repl'd Parts w/Sufficient Parts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Exempt ☒ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (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 11, 19 99

6/10/99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period March 13, 1999 to April 20, 1999, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 IB NA PA 2159

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

Date JUNE 16 1999

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 May 27, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — Maintenance/WA # See Below (Repair Organization P.O. No., Job No., etc.)

3. Work Performed PP&L, Inc. (Name) — Type Code Symbol NONE

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Identification of System 283A, Class II, Main Steam System

5. (a) Applicable Construction ASME III 19 71 Edition, W'72 Addend N/A Code
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 89, No Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components

Item (s)	Susquehanna Work Authorization Number	Code Repair Form No.
1	Y80033	I99283001
2	Y80007	I99283004
3	Y80007	I99283004

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 5/27/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit - Two

PO Box 467, Berwick, PA 18603 (Address) Maintenance WA Y80024/Code Form No. I99-283006 (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 283D, Class III, MSRV Relief Safety 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)
Mechanical Shock Arrestor	Pacific Scientific	02605	N/A	GBC201H137B	1977	Replaced	No
Mechanical Shock Arrestor	Pacific Scientific	12955	N/A	GBC201H137B	1982	Replacement	No

7. Description of Work Replaced Existing Snubber with Same, Size, Tested Replacement Snubber.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Exempt ☒ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (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 11, 19 99

EAD 6/10/99

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period March 13, 1999 to April 20, 1999, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

* Factory Mutual Engineering Association

[signature] Inspector's Signature

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

Date JUNE 16 1999

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 5/27/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) Maint/WA Y80163/Code Form No. I99-249-007 (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 249E, Class II, RHR System Containment Spray Pipe and Logic

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)
Mechanical Shock Arrestor	Pacific Scientific	03581	N/A	GBB218H12	1977	Replaced	No
Mechanical Shock Arrestor	Pacific Scientific	19446	N/A	GBB218H12	1981	Replacement	No

7. Description of Work Replaced Existing Snubber with Same Size, Tested Replacement Snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Exempt ☒ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 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 5/27/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit - Two

PO Box 467, Berwick, PA 18603 (Address) Maint. WA Y80008/Code Form No. I99-250-002 (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 250B, Class II, RCIC Turbine and Auxiliaries

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 Load Stud	Grinnel	* Item #13 (1)	N/A	DBB209H16	*(1)	Replaced	No
1 Load Stud	Grinnel	* Item #13 (1)	N/A	DBB209H16	*(1)	Replacement	No
1 Heavy Hex Nut	Grinnel	* Item #14 (1)	N/A	DBB209H16	*(1)	Replaced	No
1 Heavy Hex Nut	Grinnel	* Item #14 (1)	N/A	DBB209H16	*(1)	Replacement	No

*NOTE (1): Serial/Heat Number and Year Built Not Available

7. Description of Work Replaced Parts with Sufficient Replacement Parts

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Exempt ☒ Pressure _____ psi Test Temp. _____ °F

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

261B-I

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 5/27/99

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) Unit Two

PO Box 467, Berwick, PA 18603 (Address) Maint WA 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 261B, Class I, Reactor Water Clean Up

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)
Item 1	Mechanical Shock Arrestor	Pacific Scientific	02758	N/A	DBA201H6	1977	Replaced	No
	Mechanical Shock Arrestor	Pacific Scientific	02168	N/A	DBA201H6	1977	Replacement	No
Item 2	Mechanical Shock Arrestor	Pacific Scientific	14395	N/A	SPDCA233H 3008	1982	Replaced	No
	Mechanical Shock Arrestor	Pacific Scientific	14437	N/A	SPDCA233H 3008	1982	Replacement	No

7. Description of Work Replaced Existing Shubbers with Same Size, Tested Replacement Snubbers.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Exempt ☒ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 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 May 27, 1999

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — Maintenance/WA # See Below (Repair Organization P.O. No., Job No., etc.)

3. Work Performed PP&L, Inc. (Name) — Type Code Symbol NONE

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Identification of System 261B, Class I, Reactor Water Clean Up

5. (a) Applicable Construction ASME III 19 71 Edition, W'72 Addenda N/A Code
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 89, No Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components

Item (s)	Susquehanna Work Authorization Number	Code Repair Form No.
1	Y80001	I99261003
2	Y80035	I99261005

APPENDIX E

EROSION/CORROSION SCOPE OF EXAMINATIONS

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM / WA NO	MEAS MIN / ERATE	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
DBA2012-E1 X-2696	ELBOW	RWCU 6 RESP99	31 723 X-RI09	RB 400	56.2	0	.432 .288	DBA-201-2 5'N31.5-16'ER	K1798 K1798-01
DBB2222-E1 X-2500 RWCU RETURN TO FW	VALVE	RWCU 4 RESP99	34 755 X-RI09	RB 501	47.2	4	.438 .292	DBB-222-2 2'WS-6'S34.5	K785 K0785-01
DBD2011-E2 X-2044 RFP A EXIT Z1 TEMP #001082	ELBOW 90	FW 18 RESP99	23 678 X-RI09	TURB G128	28.8	0 B	1.375 1.049	DBD-201-1 7'S38-4'WL	K406 K0406-01
DBD2011-E3 X-2050 RFP FE-2N001A INLET Z1 TEMP #001082	ELBOW 90	FW 18 RESP99	23 740 X-RI09	TB G422	32.2	8 B	1.375 1.049	DBD-201-1 2'3WN-10'9S38	K226 K0226-01
DBD2012-E3 X-2061 RFP FE-2N001B INLET Z1 TEMP #001082	ELBOW 90	FW 18 RESP99	23 740 X-RI09	TB 422	42.6	8 B	1.375 1.049	DBD-201-2 2'WN-8'S38	K228 K0228-01
DBD2013-E2 X-2062 RFP C EXIT	ELBOW 90	FW 18 RESP99	22 678 X-RI09	TB G128	22.6	0 B	1.375 1.049	DBD-201-3 8'11S34-4WL	K229 K0229-01
DBD2013-E3 X-2065 RFP FE-2N001C INLET Z1 TEMP 001062, Z3 TEMP 001071	ELBOW 90	FW 18 RESP99	23 740 X-RI09	TURB G422	23.0	8 B	1.375 1.049	DBD-201-3 2'WN-5'S38	K384 K0384-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM / WA NO	MEAS MIN / ERATE	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
DBD2015-E1A X-2051A FW TO RPV (MAIN)	TEE B	FW 30 RESP99	32 754 X-RI09	RBWS Z520	0.0	6 B	1.600 1.510	DBD-201-5 4'S33-10'WP	K385 K0385-01
DBD2015-E1B X-2051B FW TO RPV (BRANCH)	TEE B	FW 24 RESP99	32 754 X-RI09	RBWS Z520	28.7	6 B	1.812 1.335	DBD-201-5 4'S33-10WP	K385 K0385-01
DLA2021-E1 X-2177 'A' FW TO RPV	ELBOW 90	FW 12 RESP99	31 754 X-RI09	RB 516	31.4	0 M	.688 0.459	DLA-202-1 210AZ-23'RCL	K235 K0235-01
DLA2021-E2A X-2176A 'A' FW TO RPV	REDUCER	FW 20 RESP99	31 754 X-RI09	RB 516	32.2	0 M	1.031 0.687	DLA-202-1 266AZ-22RCL	K236 K0236-01
DLA2021-E2B X-2176B 'A' FW TO RPV	REDUCER	FW 12 RESP99	31 754 X-RI09	RB 516	37.5	0 M	0.688 0.459	DLA-202-1 266AZ-22RCL	K236 K0236-01
DLA2021-E3A X-2175A 'A' FW TO RPV	TEE D	FW 20 RESP99	31 754 X-RI09	RB 516	35.7	0 M	1.031 0.687	DLA-202-1 270AZ-22RCL	K237 K0237-01
DLA2021-E3B X-2175B 'A' FW TO RPV Z3 TEMP 001033	TEE D	FW 12 RESP99	31 754 X-RI09	RB 516	49.7	0 M	0.688 0.459	DLA-202-1 270AZ-22RCL	K237 K0237-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
DLA2041-E1 X-2142 RPV INLET B Z1 TEMP 001113, Z3 TEM 001033	ELBOW 90	FW 12 RESP99	31 754 X-RI09	RB 516	36.6	0 M	0.688 0.459	DLA-204-1 150AZ-22RCL	K239 K0239-01
DLA2041-E2A X-2141A RPV INLET B	REDUCER	FW 20 RESP99	31 754 X-RI09	RB 516	0.0	0 M	1.031 0.687	DLA-204-1 95AZ-22RCL	K240 K0240-01
DLA2041-E2B X-2141B RPV INLET B	REDUCER	FW 12 RESP99	31 754 X-RI09	RB 516	30.1	0 M	.688 .459	DLA-204-1 95AZ-22'RCL	K240 K0240-01
DLA2041-E3A X-2140A RPV INLET B Z1 TEMP 001122	TEE D	FW 20 RESP99	31 754 X-RI09	RB 516	0.0	0 M	1.031 0.687	DLA-204-1 90AZ-22RCL	K241 K0241-01
DLA2041-E3B X-2140B RPV INLET B Z3 TEMP 001024	TEE D	FW 12 RESP99	31 754 X-RI09	RB 516	37.9	0 M	0.688 0.459	DLA-204-1 90AZ-22RCL	K241 K0241-01
DLA2041-E5A X-2594A RPV INLET B	TEE D	FW 24 RESP99	31 754 X-RI09	RB 516	11.8	0 M	1.219 0.824	DLA-204-1 53AZ-24'RCL	K242 K0242-01
DLA2041-E5B X-2594B RPV INLET B Z3 TEMP 001033	TEE D	FW 12 RESP99	31 754 X-RI09	RB 516	30.5	0 M	.688 0.459	DLA-204-1 53AZ-24'RCL	K242 K0242-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
EBD2025-E1A X-2694	ORIFICE ASEMBLY	BYPS ST 12 RESP99	15 675 X-RIO9	TB 36	32.0	15	.562 .375	EBD202-5 1'S39-17'EG	K765 K0765-01
EBD2025-E1B X-2694	ORIFICE ASEMBLY	BYPS ST 14 RESP99	15 675 X-RIO9	TB 36	33.5	15	.593 .396	EBD202-5 1'S39-17'EG	K765 K0765-01
EBD2025-E1C X-2694	ORIFICE ASEMBLY	BYPS ST 18 RESP99	15 675 X-RIO9	TB 36	17.20 P51139	15	.750 .500	EBD202-5 1'S39-17'EG	K765 K0765-02
EBD2142-E2 X-2689	ELBOW	MS 4 RESP99	19 688 X-9RIO	TB 113	63.2	8 B	.438 .291	EBD214-2 4'S39-3'WK	K1813 K1813-01
EBD2142-E5 X-2868	ELBOW	MS 4" RESP99	22 723 X-9RIO	TB 212	90.47	20 B	.438 .291	EBD214-2 3'N34-5'EK	K1819 K1819-01
GAD2011-E1 X-2249 MSEP DRN A - 4C Z1 TEMP 001035	TEE B	MSEPD 10 RESP99	24 707 X-RIO9	TB 215	48.2	4 B	.500 .330	GAD-201-1 4'N43-5EL	K492 K0492-01
GAD2011-E4 X-2170 B MSEP DRAIN TO FWH 4A REPLC'D WA # V93341	VALVE	MSEPD 6 RESP99	24 707 X-RIO9	TURB G215	30.1	4 B	.280 .186	GAD-201-1 4'EL-4'S42	K387 K0387-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
GAD2012-E1 X-2248 MSEP DRN A - 4B Z1 TEMP 00135	TEE B	MSEPD 10 RESP99	23 707 X-RI09	TB 214	47.6	4 B	.500 .330	GAD-201-2 4'N40-5'EL	K491 K0491-01
GAD2012-E3 X-2457 MSEP DRN B-FWH4 Z1&2 TEMP 001035	TEE B	MSEPD 10 RESP99	23 707 X-RI09	TB 214	67.0	4 B	.500 .330	GAD-201-2 14'N40-5'EL	K494 K0494-01
GAD2013-E1 X-2012 MSEP DRAIN TO 4C Z1&2 TEMP 001305	TEE B	MSEPD 10 RESP99	22 707 X-RI09	TB G212	78.2	5 B	0.500 0.330	GAD-201-3 5'EL-4'N35	K243 K0243-01
GAD2013-E2 X-2169 A MSEP DRAIN TO FWH 4C REPLACED WA # V93340	VALVE	MSEPD 6 RESP99	22 707 X-RI09	TURB G212	29.7	5 B	.280 .186	GAD-201-3 4EL-4N35	K389 K0389-01
GAD2013-E3 X-2458 MSEP DRN B-FWH4 Z1&2 TEMP 001035	TEE B	MSEPD 10 RESP99	22 707 X-RI09	TB II212	77.6	4 B	.500 .330	GAD-201-3 14'N35-5'EL	K495 K0495-01
GAD2013-E4 X-2172 B MSEP DRAIN TO FWH 4C REPLACED WA #V93341	VALVE	MSEPD 6 RESP99	22 707 X-RI09	TURB G212	20.4	5 B	.280 .186	GAD-201-3 4'EL-4'S34	K390 K0390-01
GAD2021-E2A X-2277A DRAIN 5A TO 4A	REDUCER	FW 12 RESP99	23 703 X-RI09	TB 215	25.6	0	.375 .250	GAD-202-1 6'S41-6'EL	K809 K0809-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM / WA NO	MEAS MIN / ERATE	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
GAD2021-E2B X-2277B DRAIN 5A TO 4A	REDUCER	FW 6 RESP99	23 703 X-RI09	TB 215	0.0	0	.280 .187	GAD-202-1 6'S41-6'EL	K809 K0809-01
GAD2031-E1 X-2016 FWH DRAIN 4A TO 3A Z1&2 TEMP 001082,Z3 001094	TEE B	FWHD 16 RESP99	23 703 X-RI09	TB G215	49.4	0 B	0.375 0.250	GAD-203-1 1'EL-6'S41	K244 K0244-01
GAD2032-E1 X-2267 DRAIN 4B TO 3B	TEE B	FW 16 RESP99	23 703 X-RI09	TB 215	42.3	0 B	.375 .250	GAD-203-2 6'N41-1'EL	K739 K0739-01
GAD2033-E1 X-2269 DRAIN 4C TO 3C	TEE B	FW 16 RESP99	22 703 X-RI09	TB 212	48.0	0 B	.375 .250	GAD-203-3 12'N34-1'EL	K740 K0740-01
GAD2041-E1 X-2191 EXTR 5B DRAIN (20B) Z1 TEMP 000130, Z3 000131	ELBOW 90	EXTST 4 RESP99	18 701 X-RI09	TB G211	29.1	0 B	.237 .158	GAD-204-1 2'EJ-0'N37	K392 K0392-01
GBD2014-E2A X-2788 SIS: GBD2011-E2A	REDUCER	MSEP 10 RESP99	18 701 X-RI09	TB G211	19.1	0 C	.500 .333	GBD-201-4 5N36-16EHB	K425 K0425-01
GBD2014-E2B X-2788 SIS: GBD2011-E2B	REDUCER	MSEP 8 RESP99	18 701 X-RI09	TB G211	0.0	0 C	.500 .333	GBD-201-4 5N36-16EHB	K425 K0425-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2. AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM / WA NO	MEAS MIN / ERATE	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
GBD2021-E2 X-2155 EXTRACTION 5A DRN Z1 TEMP 000130, Z3 000131	ELBOW 90	EXTST 4 RESP99	19 708 X-RI09	TB G211	37.9	6 B	.237 .158	GBD-202-1 4'WK-12'S38	K393 K0393-01
GBD2032-E1A X-2793 SIS: GBD2031-E1A, GBD2033-E1A Z1 TEMP 000144	REDUCER	FWHD 8 RESP99	18 701 X-RI09	TB G211	29.9	0 B	.322 .215	GBD-203-2 12'N37-20'EHB	K427 K0427-01
GBD2032-E1B X-2793 SIS: GBD2031-E1B, GBD2033-E1B Z1 TEMP 000144	REDUCER	FWHD 6 RESP99	18 701 X-RI09	TB G211	0.0	0 B	.280 .187	GBD-203-2 12'N37-20'EHB	K427 K0427-01
GBD2033-E1A X-2795 SIS: GBD2031-E1A, GBD2032-E1A Z1 TEMP 000144	REDUCER	FWHD 8 RESP99	18 701 X-RI09	TB G211	50.4	0 B	.322 .215	GBD-203-3 11'N35-15'EHB	K428 K0428-01
GBD2033-E1B X-2795 SIS: GBD2031-E1B, GBD2032-E1B Z1 TEMP 000144	REDUCER	FWHD 6 RESP99	18 701 X-RI09	TB G211	8.5	0 B	.280 .186	GBD-203-3 11'N35-15'EHB	K428 K0428-01
GBD2081-E4A X-2220A REJECT TO CST Z1&2 TEMP 001078, Z3 001033	REDUCER	COND 12 RESP99	23 658 X-RI09	TB G52	22.7	0 B	0.500 0.333	GBD-208-1 5'EK-9'N42	K252 K0252-01
GBD2081-E4B X-2220B REJECT TO CST	REDUCER	COND 8 RESP99	23 658 X-9RIO	TURB G52	0.0	0 B	.322 .215	GBD-208-1 5'EK-9'N42	K252 K0252-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
GBD2091-E1 X-2138 SHORT PATH FE-20508 Z1 TEMP 003078	ORIFICE	COND 14 RESP99	22 670 X-RIO9	TURB G52	4.7	10 C	.500 .333	GBD-209-1 4'N34-2'EL	K396 K0396-01
GBD2132-E2 X-2037 LONG PATH AFTER FO-20570B	45 ELBOW	FW 16 RESP99	18 718 X-RIO9	TB G211	20.5	16 B	0.656 0.437	GBD-213-2 6'S34-9EHE	K254 K0254-01
GBD2203-E1 X-2149 F.W. #4C TO 5C	ELBOW 90	FW 20 RESP99	22 711 X-RIO9	TURB G212	3.3	8 B	.812 .541	GBD-220-3 5EL-10N36	K429 K0429-01
GBD2261-E1 X-2218 DEMIN RECYCLE TO CONDENSER HV-21617	VALVE	CDEM 8 RESP99	22 668 X-RIO9	TB G42	24.2	9 B	0.322 0.215	GBD-226-1 5'3EM-5N34	K264 K0264-01
GBD2381-E1 X-2083 MAIN STEAM DRAINS Z1 TEMP 000130, Z3 000131	ELBOW 90	MS 4 RESP99	19 671 X-RIO9	TURB G36	22.7	11 B	.237 .158	GBD-238-1 6EJ-11'N40	K407 K0407-01
GBD2401-E1 X-2295 FWH 4A VENT	ELBOW	FW 3 RESP99	24 703 X-9RIO	TB G215	17.0	0	.300 .200	GBD-240-1 5'S43-0'EL	K878 K0878-01
GFD2011-E1 X-2008 EXTR TO FWH 5B, C	PIPE	EXTST 14 RESP99	19 725 X-RIO9	TURB G211	16.8	20 B	.375 .250	GFD-201-1 0EHB-10N41	K409 K0409-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM / WA NO	MEAS MIN / ERATE	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
GFD2012-E1 X-2143 EXTRACTION #5A	PIPE	EXTST 14 RESP99	19 725 X-RIO9	TURB G211	12.8	24 C	.375 .250	GFD-201-2 0EHB-3S41	K408 K0408-01
GFD2012-E7 X-2002 EXTR TO FWH 5B, C	TEE C	EXTST 18 RESP99	19 718 X-9RIO	TB 211	0.0	0 B	.375 .250	GFD-201-2	K886 K0886-01
GFD2031-E1A X-2125A XAROUND STEAM DRAINS	TEE A	MSEP 6 RESP99	15 696 X-RIO9	TURB G113	35.4	16 B	.280 .187	GFD-203-1 4WHB-3N40	K411 K0411-01
GFD2031-E1B X-2125B XAROUND STEAM DRAINS	TEE A	MSEP 4 RESP99	15 696 X-RIO9	TURB G113	0.0	16 B	.280 .187	GFD-203-1 4WHB-3N40	K411 K0411-01
HBD2061-E1 X-2560 MSV STEAM LEAKOFF	ELBOW	TS 6 RESP99	19 697 X-9RIO	TB G113	13.9	18	.280 .186	HBD-206-1 3'EHB-6'N41	K904 K0904-01
HBD2063-E2 X-2231 BPV 2ND LEAKOFF Z1 TEMP 000129, Z3 000132	ELBOW 90	TS 3 RESP99	16 716 X-RIO9	TB G211	46.5	14 B	.216 .143	HBD-206-3 6EG-5N43	K412 K0412-01
HBD2144-E1 X-2304 FWH 2A VENT	ELBOW	FW 3 RESP99	15 707 X-9RIO	TB G211	30.5	6	.216 .144	HBD-214-4 22'EG-7'S39	K918 K0918-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
HBD2152-E1A X-2686A	TEE A	MS 4" RESP99	16 701 X-RIO9	TB 211	103.7	0 B	.237 .157	HBD-215-2 3'S43-8'WHB	K1811 K1811-01
HBD2152-E1B X-2686B	TEE A	MS 2" RESP99	16 701 X-RIO9	TB 211	0.0	0 B	.218 .145	HBD-215-2 3'S43-8'WHB	K1811 K1811-01
HBD2152-E2A X-2687A	TEE A	MS 4" RESP99	16 701 X-RIO9	TB 211	73.4	0 B	.237 .157	HBD-215-2 3'S43-19'WHB	K1812 K1812-01
HBD2152-E2B X-2687B	TEE A	MS 2" RESP99	16 701 X-RIO89	TB 211	0.0	0 B	.218 .145	HBD-215-2 3'S43-19'WHB	K1812 K1812-01
HBD2541-E1 X-2166 HP TURB INNER GLAND LEAKOFF	ELBOW 90	TS 4 RESP99	19 725 X-RIO9	TB G211	32.9	24 B	0.237 0.157	HBD-254-1 12'N42-0HB	K328 K0328-01
HBD2661-E2 X-2159 EXTR STEAM TO SSE	ELBOW 90	TS 8 RESP99	24 738 X-RIO9	TB G416	19.6	7 B	0.322 0.215	HBD-266-1 8S42-11'WM	K329 K0329-01
SPEAD2141-E1 X-2133 RCIC STEAM LINE DRAIN	ELBOW 90	RCIC 1 RESP99	32 723 X-RIO9	RBWS Z411	47.5	0 B	0.358 .238	SPEAD-214-1 1'N34-5'EM	K336 K0336-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
SPEAD2141-E2 X-2232 RCIC STEAM LEAD DRAIN	BEND	RCIC 1 RESP99	32 727 X-RIO9	RBWS Z411	34.1	7 B	.358 .238	SPEAD-214-1 10'N34-6'WP	K748 K0748-01
SPEBD2111-E1 X-2183 RFPT A HP BEFORE SEAT DRAIN FO-22712A Z1 TEMP 000137	ORIFICE	RFPT 1 RESP99	19 670 X-RIO9	TURB G36	34.4	11 B	.358 .239	SPEBD-211-1 9S39-21WK	K455 K0455-01
SPEBD2112-E1 X-2431 RFPT A HP ST DR	VALVE	RFPT 1 RESP99	19 669 X-RIO9	TB II36	0.0	10 B	.358 .238	SPEBD-211-2 4'S39-31'EHB	K496 K0496-01
SPEBD2119-E1A X-2131 RFPT C HP ABOVE SEAT DRAINS	REDUCER	RFPT 1.5 RESP99	18 670 X-RIO9	TB G36	0.0	10 B	0.400 0.267	SPEBD-211-9 15'EHB-7'S35	K337 K0337-01
SPEBD2119-E1B X-2131 RFPT C HP ABOVE SEAT DRAINS	REDUCER	RFPT 1 RESP99	18 670 X-RIO9	TURB G36	21.6	10 B	0.358 0.238	SPEBD-211-9 15'EHB-7'S35	K337 K0337-01
SPEBD2131-E1 X-2129 MAIN STEAM TO SSE DRAIN	90 ELBOW	TS 1 RESP99	15 682 X-RIO9	TURB G113	5.8	3 B	.358 .238	SPEBD-213-1 1'S40-3'WHB	K459 K0459-01
SPGAD24421-E1 X-2124 MAIN STEAM AFTER CV DRAINS	90 ELBOW	TS 2 RESP99	19 678 X-RIO9	TB G113	30.4	0 B	.344 .229	SPGAD-244-2 3S40-3EHB,	K460 K0460-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
SPGAD24423-E4 X-2236 MAIN STEAM LEAD DRAINS	VALVE	TURB 1 RESP99	15 685 X-RI09	TB G113	33.7	6 B	.250 .167	SPGAD-244-2 7'S40-19'WHB	K713 K0713-01
SPGAD2541-E1 X-2105 MAIN STEAM RFPT HDR DRAIN Z3 TEMP 000136, ECO 89-2106	ELBOW 90	RFPT 1 RESP99	18 682 X-RI09	TB G113	65.0	0 B	0.250 0.167	SPGAD-254-1 4N35-3WK	K343 K0343-01
SPGAD2541-E7 X-2699 ON: SPGAD2541-E6 Z1 TEMP 000137	ORIFICE	RFPT 1 RESP99	18 684 X-RI09	TB 113	31.3	4 B	.250 .167	SPGAD254-1 4N35-4WK	K465 K0465-01
SPGBD2028-E1 X-2195 EXTRACTION 5C DRAIN	ELBOW 90	EXTST 2 RESP99	22 708 X-RI09	TB G212	33.9	5 B	.344 .229	SPGBD-202-8 15'EK-6'N35	K467 K0467-01
SPGBD2331-E1 X-2207 RFPT A LP AFTER SEAT DRAIN	ELBOW 90	RFPT 1 RESP99	23 682 X-RI09	TB G116	31.3	0 B	0.250 0.167	SPGBD-233-1 5'S39-9'EK	K350 K0350-01
SPGBD23311-E1 X-2132 RFPT A HP BELOW SEAT DRAINS Z1 TEMP 000140, Z3 000136	90 ELBOW	RFPT 1 RESP99	23 682 X-RI09	TURB G116	8.4	3 B	.250 .167	SPGBD-233-11 4S39-10EK	K468 K0468-01
SPGBD23313-E1 X-2211 RFPT C LP BELOW SEAT DRAIN	90 ELBOW	RFPT 1 RESP99	22 682 X-RI09	TB G114	22.8	0 B	.250 .167	SPGBD-233-13 7'S35-10'EK	K469 K0469-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
SPGBD2384-E3 X-2179 MAIN STEAM DRAIN	VALVE	MS 1 RESP99	19 680 X-RIO9	TB G113	33.7	0 B	0.250 0.167	SPGBD-238-4 5N42-6'WK	K354 K0354-01
SPGBD2441-E5 X-2120 MSV A BEFORE SEAT DR HV-20101A Z1 TEMP 000137	VALVE	TURB 1 RESP99	19 706 X-RIO9	TB G211	31.3	4 B	0.250 0.167	SPGBD-244-1 8'S41-15'WK	K355 K0355-01
SPGBD2521-E1 X-2130 MAIN STEAM TO RFPT DRAINS Z1 TEMP 000141, Z3 000136	90 ELBOW	RFPT 1 RESP99	18 669 X-RIO9	TURB G36	10.8	10 B	.250 .167	SPGBD-252-1 8S35-9EJ	K471 K0471-01
SPHAD2104-E2 X-2027	ELBOW 90	EXST RESP99	19 714 X-9RIO	TB 211	36.9	12	0.218 0.145	6"S39-8'EHE	K477 K0477-01
SPHAD2523-E1 X-2113 SSE DRAIN TO FWH #2A	BEND 45	TS 2 RESP99	15 710 X-RIO9	TURB G211	15.0	8 B	.218 .145	SPHAD-252-3 3S39-21WHB	K472 K0472-01
SPHAD2523-E2 X-2112 SSE DRAIN TO FWH #2 HV-20270A	VALVE	TS 2 RESP99	15 714 X-RIO9	TB G211	36.9	12 B	0.218 0.145	SPHAD-252-3 2'EGB-9'N40	K358 K0358-01
SPHBD20731-E1 X-2039 RFPT B MN STM DRAIN ECO 91-6090, REPL RIO4	SR ELBOW 90	RFPT 2 RESP99	23 682 X-9RIO	TURB G115	28.7	2 B	.218 .145	SPHBD-2073-1 8'S37-2'EK	K727 K0727-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
SPHBD20732-E3 X-2678 RFPT XAROUND HDR DRAIN	BEND 90	RFPT 2 RESP99	18 669 X-RIO9	TB G36	30.1	12 B	.218 .145	SPHBD-2073-2 13S37-0EJ	K474 K0474-01
SPHBD20741-E1 X-2040 RFPT A XAROUND DRAIN	SR ELBOW 90	RFPT 2 RESP99	23 681 X-RIO9	TB G116	30.1	0 B	0.218 0.145	SPHBD2074-1 7'7S39-2'3EK	K359 K0359-01
SPHBD20853-E2A X-2215A RFPT C FIRST STAGE DRAIN	REDUCER	RFPT 1.5 RESP99	18 670 X-RIO9	TB G36	31.2	11 B	.200 .133	SPHBD-2085-3 5'S35-9'WK	K732 K0732-01
SPHBD20853-E2B X-2215B RFPT C FIRST STAGE DRAIN	REDUCER	RFPT 1.25 RESP99	18 670 X-RIO9	TB G36	0.0	11 C	.191 .127	SPHBD-2085-3 5'S35-9'WK	K732 K0732-01
SPHBD2151-E4 X-2162 MAIN STEAM TO SJAE DRAIN #2 Z1 TEMP 000142	ELBOW 90	MCPR 2 RESP99	16 700 X-RIO9	TB G211	36.9	0 B	.218 .145	SPHBD-215-1 6'WHB-5'N43	K479 K0479-01
SPHBD2622-E2 X-2135 OFFGAS STEAM SUPPLY DRAIN Z1 TEMP 000140, Z3 000136	ELBOW 90	MCPR 1 RESP99	16 700 X-RIO9	TURB G211	20.0	0 B	.179 .119	SPHBD-262-2 3N43-4WGB	K480
SPHBD2711-E2 X-2115 SSE VENT FO-20728	ORIFICE	TS 1 RESP99	24 730 X-RIO9	TURB G416	26.6	0 B	.179 .119	SPHBD-271-1 4EL-6S42,	K481 K0481-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

REPORT 2 AS OF: 06/28/99

COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
SSH-E1A X-2187A SSE OUTLET	REDUCER	TS 12 RESP99	24 740 X-RI09	TURB G416	30.8	8 B	.406 .270	F110630/3903 5S43-1EL	K482 K0482-01
SSH-E1B X-2187B SSE OUTLET	REDUCER	TS 8 RESP99	24 740 X-RI09	TURB G416	0.0	8 B	.322 .215	F110630/3903 5S43-1EL	K482 K0482-01
SSH-E26A X-2188A SSE SUPPLY HEADER	REDUCER	TS 8 RESP99	18 723 X-RI09	TURB G211	9.3	22 B	.322 .215	F110630/3902 3S36-20WK	K488 K0488-01
SSH-E26B X-2188B SSE SUPPLY HEADER	REDUCER	TS 5 RESP99	18 723 X-RI09	TURB G211	23.2	22 B	.258 .172	F110630/3902 3S36-20WK	K488 K0488-01
VNBB214-E3 X-2462 MS LINE B	ELBOW 90	MS 26 RESP99	31 741 X-RI09	RBDW Z516	21.1	0 M	1.138 0.893	VNB-B21-4 108AZ-30RCL	K375 K0375-01
1SCVL-E7 X-2173 CV1 STEM LEAKS	90 BEND	TS .5 RESP99	19 716 X-RI09	TB G211	25.5	14 B	.147 .100	F110610/3001 8'N41-17'WK	K738 K0738-01
1SLMSV-E16 X-2238 MSV STEAM LEAKOFF	BEND	TS 2.5 RESP99	19 708 X-RI09	TB G211 P46500	36.77	6 B	0.203 0.135	1SLMSV 8'S40-8'WK	K381 K0381-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

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COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM / WA NO	MEAS MIN / ERATE	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
1SSH7-E28 X-2189 SSE SUPPLY HEADER	ELBOW 90	TS 5 RESP99	18 731 X-RI09	TURB G420 P40253	.232 30.0	0 B	.258 .172	F110630/3901 1'N36-14EHB	K489 K0489-01
2E102B-E1A X-2892	FW HEATER SHELL	FWH RESP99	14 707 X-RI09	TB IPCON	49.7	12	0.562 0.375	FWHTR 5'S37-0@HB	K1856 K0856-01
2E102B-E1B X-2892	FW HEATER SHELL	FWH RESP99	14 707 X-RI09	TB IPCON	46.7	12	0.562 0.375	FWHTR 5'S37-0'@HB	K1856 K0856-01
2E103A-E1 X-2894	FW HEATER SHELL	FWH RESP99	23 704 X-RI09	TB 215	216.5	4	0.562 0.375	FWHTR 10'S43-20'EK	K1858 K1858-01
2E103B-E1 X-2895	FW HEATER SHELL	FWH RESP99	23 704 X-RI09	TB 214	272.1	4	0.562 0.375	FWHTR 10'N40-20'EK	K1859 K1859-01
2E104C-E1 X-2899	FW HEATER SHELL	FWH RESP99	22 704 X-RI09	TB 212	725.8	4	0.562 0.375	FWHTR 5'N35-32'EK	K1863 K1863-01
2SCVL-E14 X-2371 CV 2 STEM LEAKO	ELBOW 90	TS 1.5 RESP99	19 714 X-RI09	TB 211	67.16 P60148	12 B	.200 .133	D215103 1'N41-16'WK	K1160 K1160-01

UNIT 2-9TH RIO -- LOCATION AND DESCRIPTION OF EROSION/CORROSION EXAMS

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COMPONENT ID / REPLACED ID / DETAIL PLAN / ACC 2 LINE	DESCRIPTION	SYSTEM / SIZE / OUTDTE	AREA / ELEV / EXAMSCH	BUILD / ROOM	MEAS MIN / ERATE / WA NO	SCAFF / INSUL	NOM WALL / MIN WALL	LINE / COORID	MAP NO. / ACTIVITY
2SLBPV-E11 X-2095 BPV LP STEAM LEAKOFF 2SLBPV	BEND	TS 1.5 RESP99	16 718 X-RIO9	TB 211	98.5 P63213	0 B	.200 .133	F110600-9401 5N43-16EG	K484 K0484-01
2SLMSV-E8 X-2086 MSV SEALING STEAM	ELBOW 90	TS 1 RESP99	19 710 X-RIO9	TB G211	21.6	8 B	0.179 0.119	F110610-3001 8'S40-9'WK	K382 K0382-01
3SCVL-E23 X-2091 CV 1 SEAL STEAM	ELBOW 90	TS .5 RESP99	19 717 X-RIO9	TB G211	17.0	14 B	.147 .100	D215103 5S40-16WK	K486 K0486-01
3SCVL-E24 X-2241 CV 1 SEAL STEAM	ELBOW 90	TS 0.5 RESP99	19 716 X-RIO9	TB G211	8.5	13 B	0.147 0.100	D215103 5S40-21WK	K383 K0383-01

TOTAL EROSION/CORROSION EXAMS: 116

APPENDIX F

CONTAINMENT INSPECTIONS

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	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 Interior	GV	794'		2A	1	1	999001	NVT-3, R3
E-A E1.11	Head and Flange Exterior	GV	794'		2A	1	1	999001	NVT-3, R3
E-A E1.11	Manhole Hatch Interior	GV			2A	1	1	999002	NVT-3, R3
E-A E1.11	Manhole Hatch Exterior	GV			2A	1	1	999002	NVT-3, R3
	Personnel Access Airlock (X-2)								
E-A E1.11	Outer Door Interior	GV	723'	134°	3A, C, D, L	1	1	999003	NVT-3, R3
E-A E1.11	Outer Door Exterior	GV	723'	134°	3A, C, D, L	1	1	999003	NVT-3, R3
E-A E1.11	Inner Door Interior	GV	723'	134°	3A, C, D, L	1	1	999033	NVT-3, R3
E-A E1.11	Inner Door Exterior	GV	723'	134°	3A, C, D, L	1	1	999033	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Inner Bulkhead Exterior (DW)	GV			3C, H	1	1	999034	NVT-3, R3
E-A E1.11	Inner Bulkhead Interior (AL)	GV			3B, C, H	1	1	999034	NVT-3, R3
E-A E1.11	Outer Bulkhead Exterior (RB)	GV			3C	1	1	999035	NVT-3, R3
E-A E1.11	Outer Bulkhead Interior (AL)	GV			3C	1	1	999035	NVT-3, R3
E-A E1.11	Barrel Section Exterior	GV			3G	1	1	999036	NVT-3, R3
E-A E1.11	Barrel Section Interior	GV			3G	1	1	999036	NVT-3, R3
	Equipment Hatch (X-1)								
E-A E1.11	Head and Flange	GV	723'	314°	4A. 4B	1	1	999004	NVT-3, R3
E-A E1.11	Barrel Section Interior	GV			4A. 4B	1	1	999037	NVT-3, R3
E-A E1.11	Barrel Section Exterior	GV			4A. 4B	1	1	999037	NVT-3, R3
Examination Category: E-A, Containment Surfaces									
E1.10 Containment Vessel Pressure Retaining Boundary									

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E1.11	Accessible Surface Areas								
	Drywell - Exterior								
E-A E1.11	X-35A	GV	717'	50°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-35B	GV	717'	48°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-35C	GV	717'	46°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-35D	GV	717'	44°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-35E	GV	717'	41°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-35F	GV	717'	39°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-93	GV	717'	37°	30	1	1	999005	NVT-3, R3
E-A E1.11	X-11	GV	708'	147°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-12	GV	710'	176°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-13B	GV	710'	161°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-15	GV	709'	124°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-18	GV	709'	127°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-19	GV	709'	120°	31	1	1	999005	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-30B	GV	704'	132°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-33B	GV	704'	125°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-34A	GV	704'	154°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-48A	GV	704'	157°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-50B	GV	704'	142°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-51B	GV	704'	145°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-52B	GV	704'	137°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-83A	GV	704'	150°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-90D	GV	711'	141°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-90E	GV	711'	137°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-90F	GV	711'	133°	31	1	1	999005	NVT-3, R3
E-A E1.11	X-6 (CRD Hatch)	GV	718'	216°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-10	GV	709'	209°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-13A	GV	710'	200°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-17	GV	710'	247°	32	1	1	999005	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-23	GV	709'	186°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-50A	GV	704'	215°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-72A	GV	704'	229°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-72B	GV	704'	231°	32	1	1	999005	NVT-3, R3
E-A E1.11	X-30A	GV	710'	322°	33	1	1	999005	NVT-3, R3
E-A E1.11	X-33A	GV	708'	327°	33	1	1	999005	NVT-3, R3
E-A E1.11	X-49A	GV	704'	327°	33	1	1	999005	NVT-3, R3
E-A E1.11	X-52A	GV	708'	323°	33	1	1	999005	NVT-3, R3
E-A E1.11	X-90A	GV	711'	327°	33	1	1	999005	NVT-3, R3
E-A E1.11	X-8	GV	731'	0°	34	1	1	999006	NVT-3, R3
E-A E1.11	X-21	GV	734'	40°	34	1	1	999006	NVT-3, R3
E-A E1.11	X-22	GV	734'	43°	34	1	1	999006	NVT-3, R3
E-A E1.11	X-44	GV	726'	12°	34	1	1	999006	NVT-3, R3
E-A E1.11	X-94	GV	734'	36°	34	1	1	999006	NVT-3, R3
E-A E1.11	X-7A	GV	740'	0° +3	34	1	1	999006	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-7B	GV	740'	0° +11	34	1	1	999006	NVT-3, R3
E-A E1.11	X-31B	GV	726'	162°	35	1	1	999006	NVT-3, R3
E-A E1.11	X-80A	GV	726'	159°	35	1	1	999006	NVT-3, R3
E-A E1.11	X-88A	GV	721'	115°	35	1	1	999006	NVT-3, R3
E-A E1.11	X-91A	GV	726'	165°	35	1	1	999006	NVT-3, R3
E-A E1.11	X-5	GV	724'	239°	36	1	1	999006	NVT-3, R3
E-A E1.11	X-105C	GV	728'	212°	36	1	1	999006	NVT-3, R3
E-A E1.11	X-106C	GV	729'	223°	36	1	1	999006	NVT-3, R3
E-A E1.11	X-60A	GV	726'	294°	36	1	1	999006	NVT-3, R3
E-A E1.11	X-88B	GV	721'	294°	36	1	1	999006	NVT-3, R3
E-A E1.11	X-7C	GV	740'	0° -10	36	1	1	999006	NVT-3, R3
E-A E1.11	X-7D	GV	740'	0° -3	36	1	1	999006	NVT-3, R3
E-A E1.11	X-46	GV	727'	359°	36	1	1	999006	NVT-3, R3
E-A E1.11	X-9B	GV	753'	0° +3	38	1	1	999007	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-16B	GV	763'	6°	38	1	1	999007	NVT-3, R3
E-A E1.11	X-20	GV	763'	21°	38	1	1	999007	NVT-3, R3
E-A E1.11	X-39B	GV	763'	0° +6	38	1	1	999007	NVT-3, R3
E-A E1.11	X-36	GV	750'	169°	39	1	1	999007	NVT-3, R3
E-A E1.11	X-42	GV	750'	179°	39	1	1	999007	NVT-3, R3
E-A E1.11	X-39A	GV	753'	165°	39	1	1	999007	NVT-3, R3
E-A E1.11	X-41	GV	754'	174°	39	1	1	999007	NVT-3, R3
E-A E1.11	X-47	GV	757'	167°	39	1	1	999007	NVT-3, R3
E-A E1.11	X-57	GV	755'	169°	39	1	1	999007	NVT-3, R3
E-A E1.11	X-26	GV	772'	316°	41	1	1	999007	NVT-3, R3
E-A E1.11	X-9A	GV	753'	0° -3	41	1	1	999007	NVT-3, R3
E-A E1.11	X-16A	GV	763'	353°	41	1	1	999007	NVT-3, R3
E-A E1.11	X-14	GV	750'	302°	41	1	1	999007	NVT-3, R3
Examination Category: E-A, Containment Surfaces									

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E1.10	Containment Vessel Pressure Retaining Boundary								
E1.11	Accessible Surface Areas								
	Drywell - Interior								
E-A E1.11	Liner Plate	GV	704' - 719'	0° - 90°	50	1	1	999010	NVT-3, R3
E-A E1.11	X-100F	GV	711'	46°	50	1	1	999010	NVT-3, R3
E-A E1.11	X-104F	GV	706'	33°	50	1	1	999010	NVT-3, R3
E-A E1.11	X-104H	GV	706'	26°	50	1	1	999010	NVT-3, R3
E-A E1.11	Liner Plate	GV	704' - 719'	90° - 180°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-11	GV	708'	147°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-12	GV	710'	176°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-13B	GV	710'	161°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-15	GV	709'	124°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-18	GV	709'	127°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-33B	GV	704'	125°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-34A	GV	704'	154°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-50B	GV	704'	142°	51	1	1	999010	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-51B	GV	704'	145°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-52B	GV	704'	137°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-83A	GV	704'	150°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-90D	GV	711'	141°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-90E	GV	711'	137°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-90F	GV	711'	133°	51	1	1	999010	NVT-3, R3
E-A E1.11	X-48A	GV	704'	157°	51	1	1	999010	NVT-3, R3
E-A E1.11	Liner Plate	GV	704' - 719'	180° - 270°	52	1	1	999010	NVT-3, R3
E-A E1.11	X-6	GV	718'	216°	52	1	1	999010	NVT-3, R3
E-A E1.11	X-13A	GV	710'	200°	52	1	1	999010	NVT-3, R3
E-A E1.11	Liner Plate	GV	704' - 719'	270° - 360°	52	1	1	999010	NVT-3, R3
E-A E1.11	X-100E	GV	711'	307°	52	1	1	999010	NVT-3, R3
E-A E1.11	X-100G	GV	711'	313°	52	1	1	999010	NVT-3, R3
E-A E1.11	X-104G	GV	711'	353°	52	1	1	999010	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Liner Plate	GV	719' - 738'	0° - 90°	54	1	1	999011	NVT-3, R3
E-A E1.11	X-44	GV	726'	12°	54	1	1	999011	NVT-3, R3
E-A E1.11	X-37D	GV	735'	78°	54	1	1	999011	NVT-3, R3
E-A E1.11	X-38D	GV	735'	78°	54	1	1	999011	NVT-3, R3
E-A E1.11	Liner Plate	GV	719' - 738'	90° - 180°	55	1	1	999011	NVT-3, R3
E-A E1.11	X-88A	GV	721'	115°	55	1	1	999011	NVT-3, R3
E-A E1.11	X-37B	GV	735'	102°	55	1	1	999011	NVT-3, R3
E-A E1.11	X-38B	GV	735'	102°	55	1	1	999011	NVT-3, R3
E-A E1.11	Liner Plate	GV	719' - 738'	180° - 270°	56	1	1	999011	NVT-3, R3
E-A E1.11	X-37A	GV	735'	258°	56	1	1	999011	NVT-3, R3
E-A E1.11	X-38A	GV	735'	258°	56	1	1	999011	NVT-3, R3
E-A E1.11	Liner Plate	GV	719' - 738'	270° - 360°	56	1	1	999011	NVT-3, R3
E-A E1.11	X-37C	GV	735'	282°	56	1	1	999011	NVT-3, R3
E-A E1.11	X-38C	GV	735'	282°	56	1	1	999011	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp. Procedure
E-A E1.11	X-46	GV	727'	359°	56	1	1	999011	NVT-3, R3
E-A E1.11	Liner Plate	GV	738' - 752'	0° - 90°	58	1	1	999012	NVT-3, R3
E-A E1.11	X-7A	GV	740'	0° +3	58	1	1	999012	NVT-3, R3
E-A E1.11	X-7B	GV	740'	0° +11	58	1	1	999012	NVT-3, R3
E-A E1.11	X-7D	GV	740'	0° -3	58	1	1	999012	NVT-3, R3
E-A E1.11	X-7C	GV	740'	0° -10	58	1	1	999012	NVT-3, R3
E-A E1.11	X-106D	GV	740'	54°	58	1	1	999012	NVT-3, R3
E-A E1.11	X-107	GV	740'	65°	58	1	1	999012	NVT-3, R3
E-A E1.11	Liner Plate	GV	738' - 752'	90° - 180°	59	1	1	999012	NVT-3, R3
E-A E1.11	X-36	GV	750'	169°	59	1	1	999012	NVT-3, R3
E-A E1.11	Liner Plate	GV	738' - 752'	180° - 270°	60	1	1	999012	NVT-3, R3
E-A E1.11	Liner Plate	GV	738' - 752'	270° - 360°	61	1	1	999012	NVT-3, R3
E-A E1.11	X-14	GV	750'	302°	61	1	1	999012	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Liner Plate	GV	752' - 767'	0° - 90°	62	1	1	999013	NVT-3, R3
E-A E1.11	X-3B	GV	756'	76°	62	1	1	999013	NVT-3, R3
E-A E1.11	X-9B	GV	753'	0° +3	62	1	1	999013	NVT-3, R3
E-A E1.11	X-3D	GV	756'	79°	62	1	1	999013	NVT-3, R3
E-A E1.11	X-16B	GV	763'	6°	62	1	1	999013	NVT-3, R3
E-A E1.11	X-20	GV	763'	21°	62	1	1	999013	NVT-3, R3
E-A E1.11	X-39B	GV	736'	0° +6	62	1	1	999013	NVT-3, R3
E-A E1.11	Liner Plate	GV	752' - 767'	90° - 180°	63	1	1	999013	NVT-3, R3
E-A E1.11	X-3A	GV	756'	111°	63	1	1	999013	NVT-3, R3
E-A E1.11	X-3C	GV	756'	104°	63	1	1	999013	NVT-3, R3
E-A E1.11	X-39A	GV	753'	165°	63	1	1	999013	NVT-3, R3
E-A E1.11	X-41	GV	754'	174°	63	1	1	999013	NVT-3, R3
E-A E1.11	X-47	GV	757'	167°	63	1	1	999013	NVT-3, R3
E-A E1.11	X-57	GV	755'	169°	63	1	1	999013	NVT-3, R3
E-A E1.11	Liner Plate	GV	752' - 767'	180° - 270°	65	1	1	999013	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Liner Plate	GV	752' - 767'	270° - 360°	65	1	1	999013	NVT-3, R3
E-A E1.11	X-9A	GV	753'	0° -3	65	1	1	999013	NVT-3; R3
E-A E1.11	X-45	GV	763'	270°	65	1	1	999013	NVT-3, R3
E-A E1.11	Liner Plate	GV	767' - 779'	0° - 90°	66	1	1	999014	NVT-3, R3
E-A E1.11	Liner Plate	GV	767' - 779'	90° - 180°	67	1	1	999014	NVT-3, R3
E-A E1.11	X-65B	GV	768'	131°	67	1	1	999014	NVT-3, R3
E-A E1.11	X-59B	GV	775'	131°	68	1	1	999014	NVT-3, R3
E-A E1.11	Liner Plate	GV	767' - 779'	180° - 270°	68	1	1	999014	NVT-3, R3
E-A E1.11	Liner Plate	GV	767' - 779'	270° - 360°	69	1	1	999014	NVT-3, R3
E-A E1.11	X-26	GV	772'	316°	69	1	1	999014	NVT-3, R3
E-A E1.11	Liner Plate	GV	779' - 791'	0° - 90°	70	1	1	999015	NVT-3, R3
E-A E1.11	Liner Plate	GV	779' - 791'	90° - 180°	71	1	1	999015	NVT-3, R3
E-A E1.11	Liner Plate	GV	779' - 791'	180° - 270°	72	1	1	999015	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Liner Plate	GV	779' - 791'	270° - 360°	73	1	1	999015	NVT-3, R3
Examination Category: E-A, Containment Surfaces									
E1.10 Containment Vessel Pressure Retaining Boundary									
E1.11 Accessible Surface Areas									
	Suppression Chamber - Exterior								
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	645' - 670'	0° - 90°	88	1	1	999054	NVT-3, R3
E-A E1.11	X-206B	GV	659'	62°	88	1	1	999054	NVT-3, R3
E-A E1.11	X-234B	GV	666'	70°	88	1	1	999054	NVT-3, R3
E-A E1.11	X-235B	GV	653'	44°	88	1	1	999054	NVT-3, R3
E-A E1.11	X-236	GV	659'	49°	88	1	1	999054	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	645' - 670'	90° - 180°	89	1	1	999054	NVT-3, R3
E-A E1.11	X-203B	GV	659'	161°	89	1	1	999054	NVT-3, R3
E-A E1.11	X-203D	GV	659'	139°	89	1	1	999054	NVT-3, R3
E-A E1.11	X-209	GV	659'	101°	89	1	1	999054	NVT-3, R3
E-A E1.11	X-214	GV	659'	129°	89	1	1	999054	NVT-3, R3
E-A E1.11	X-222	GV	657'	142°	89	1	1	999054	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	645' - 670'	180° - 270°	90	1	1	999054	NVT-3, R3
E-A E1.11	X-203A	GV	659'	221°	90	1	1	999054	NVT-3, R3
E-A E1.11	X-203C	GV	659'	199°	90	1	1	999054	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	645' - 670'	270° - 360°	91	1	1	999054	NVT-3, R3
E-A E1.11	X-206A	GV	659'	297°	91	1	1	999054	NVT-3, R3
E-A E1.11	X-219B	GV	666'	286°	91	1	1	999054	NVT-3, R3
E-A E1.11	X-232B	GV	653'	280°	91	1	1	999054	NVT-3, R3
E-A E1.11	X-237	GV	659'	311°	91	1	1	999054	NVT-3, R3
E-A E1.11	X-243	GV	646'	276°	91	1	1	999054	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	670' - 683'	0° - 90°	92	1	1	999055	NVT-3, R3
E-A E1.11	X-208B	GV	673'	49°	92	1	1	999055	NVT-3, R3
E-A E1.11	X-212	GV	673'	56°	92	1	1	999055	NVT-3, R3
E-A E1.11	X-220B	GV	674'	44°	92	1	1	999055	NVT-3, R3
E-A E1.11	X-224	GV	677'	77°	92	1	1	999055	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-229B	GV	673'	63°	92	1	1	999055	NVT-3, R3
E-A E1.11	X-234A	GV	674'	70°	92	1	1	999055	NVT-3, R3
E-A E1.11	X-238B	GV	674'	52°	92	1	1	999055	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	670' - 683'	90° - 180°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-210	GV	674'	109°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-211	GV	677'	94°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-213	GV	673'	99°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-215	GV	674'	129°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-216	GV	677'	124°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-217	GV	673'	122°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-225	GV	677'	139°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-226B	GV	673'	153°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-228D	GV	673'	102°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-244	GV	677'	112°	93	1	1	999055	NVT-3, R3
E-A E1.11	X-245	GV	673'	120°	93	1	1	999055	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-246B	GV	674'	167°	93	1	1	999055	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	670' - 683'	180° - 270°	94	1	1	999055	NVT-3, R3
E-A E1.11	X-226A	GV	673'	206°	94	1	1	999055	NVT-3, R3
E-A E1.11	X-228C	GV	673'	235°	94	1	1	999055	NVT-3, R3
E-A E1.11	X-246A	GV	674'	194°	94	1	1	999055	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	670' - 683'	270° - 360°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-208A	GV	673'	311°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-219A	GV	674'	286°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-220A	GV	674'	326°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-229A	GV	673'	294°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-230A	GV	673'	291°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-231A	GV	673'	276°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-231B	GV	673'	282°	95	1	1	999055	NVT-3, R3
E-A E1.11	X-238A	GV	674'	337°	95	1	1	999055	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg. CISI	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	683' - 704'	0° - 90°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-200B	GV	685'	49°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-204B	GV	685'	79°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-205B	GV	688'	87°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-207B	GV	685'	70°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-218	GV	685'	42°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-223B	GV	688'	56°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-227	GV	685'	74°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-235A	GV	697'	44°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-300	GV	688'	32°	96	1	1	999056	NVT-3, R3
E-A E1.11	X-202	GV	689'	42°	96	1	1	999056	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	683' - 704'	90° - 180°	97	1	1	999056	NVT-3, R3
E-A E1.11	X-201B	GV	687'	139°	97	1	1	999056	NVT-3, R3
E-A E1.11	X-221B	GV	688'	124°	97	1	1	999056	NVT-3, R3
E-A E1.11	X-228B	GV	688'	99°	97	1	1	999056	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-A E1.11	X-233	GV	688'	109°	97	1	1	999056	NVT-3, R3
E-A E1.11	X-330B	GV	687'	94°	97	1	1	999056	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	683' - 704'	180° - 270°	98	1	1	999056	NVT-3, R3
E-A E1.11	X-201A	GV	687'	221°	98	1	1	999056	NVT-3, R3
E-A E1.11	X-301	GV	688'	248°	98	1	1	999056	NVT-3, R3
E-A E1.11	Suppression Chamber Liner Plate - Exterior	GV	683' - 704'	270° - 360°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-200A	GV	685'	310°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-202	GV	688'	320°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-204A	GV	685'	280°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-205A	GV	688'	272°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-207A	GV	685'	289°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-221A	GV	688'	287°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-223A	GV	688'	304°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-228A	GV	688'	325°	99	1	1	999056	NVT-3, R3
E-A E1.11	X-232A	GV	697'	280°	99	1	1	999056	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	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	999017	NVT-1, R3
E-G E8.10	Manhole Hatch (X-4) Bolting	VT-1	799'	45°	2A	1	1	999018	NVT-1, R3
	Equipment Hatch (X-1)								
E-G E8.10	Head Flange	VT-1	723'	314°	4A, 4B	1	1	999019	NVT-1, R3
Examination Category: E-G, Pressure Retaining Bolting									
E8.10 Bolted Connections									
	Penetrations								
E-G E8.10	X-6 (CRD HATCH)	VT-1	718'	216°		1	1	999057	NVT-1, R3
E-G E8.10	X-35A Bolting	VT-1	717'	50°	50, 9	1	1	999020	NVT-1, R3
E-G E8.10	X-35C Bolting	VT-1	717'	46°	50, 9	1	1	999021	NVT-1, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
E-G E8.10	X-35D Bolting	VT-1	717'	44°	50, 9	1	1	999022	NVT-1, R3
E-G E8.10	X-35E Bolting	VT-1	717'	41°	50, 9	1	1	999023	NVT-1, R3
E-G E8.10	X-35F Bolting	VT-1	717'	39°	50, 9	1	1	999024	NVT-1, R3
Examination Category: L-A Concrete									
L-1.11 Accessible Concrete Surfaces and Coated Areas									
	Drywell - Exterior								
L-A L1.11	Drywell Concrete Surface	VT-3C	704' - 719'	0° - 90°		1	1	999038	NVT-3, R3
L-A L1.11				90° - 180°		1	1	999038	NVT-3, R3
L-A L1.11				180° - 270°		1	1	999038	NVT-3, R3
L-A L1.11				270° - 360°		1	1	999038	NVT-3, R3
L-A L1.11		VT-3C	719' - 749'	0° - 90°		1	1	999042	NVT-3, R3
L-A L1.11				90° - 180°		1	1	999042	NVT-3, R3
L-A L1.11				180° - 270°		1	1	999042	NVT-3, R3
L-A L1.11				270° - 360°		1	1	999042	NVT-3, R3
L-A L1.11		VT-3C	749' - 779'	0° - 90°		1	1	999046	NVT-3, R3
L-A L1.11				90° - 180°		1	1	999046	NVT-3, R3
L-A L1.11				180° - 270°		1	1	999046	NVT-3, R3

Item	Description	Exam Type	Exam Elevation	Azimuth	Dwg CISI-	Qty.	Sch.	Report Number	Insp Procedure
L-A L1.11				270° - 360°		1	1	999046	NVT-3, R3
	Suppression Chamber - Exterior								
L-A L1.11	Concrete Surface	VT-3C	645' - 670'	0° - 90°		1	1	999058	NVT-3, R3
L-A L1.11				90° - 180°		1	1	999058	NVT-3, R3
L-A L1.11				180° - 270°		1	1	999058	NVT-3, R3
L-A L1.11				270° - 360°		1	1	999058	NVT-3, R3
L-A L1.11		VT-3C	670' - 683'	0° - 90°		1	1	999059	NVT-3, R3
L-A L1.11				90° - 180°		1	1	999059	NVT-3, R3
L-A L1.11				180° - 270°		1	1	999059	NVT-3, R3
L-A L1.11				270° - 360°		1	1	999059	NVT-3, R3
L-A L1.11		VT-3C	683' - 704'	0° - 90°		1	1	999060	NVT-3, R3
L-A L1.11				90° - 180°		1	1	999060	NVT-3, R3
L-A L1.11				180° - 270°		1	1	999060	NVT-3, R3
L-A L1.11				270° - 360°		1	1	999060	NVT-3, R3

APPENDIX G

CORRECTIONS

WORK ABSTRACT

The Site Modifications Group is responsible for preparing Construction Work Authorizations (work packages) for fabrication and installation of design changes in accordance with ASME Section XI. This work is documented on NIS-2 Forms which are submitted herewith.

MODIFICATION INSTALLATION GROUP

Design Change Packages for ASME Section XI (Class 1, 2 and 3) installed in Unit 2 since the completion of the Seventh Refueling Outage through completion of the Eighth Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM / CLASS		DESCRIPTION
95-9071 & 95-9073	245A III		Repair Discs in HV-255-F006 and HV-255-F013
96-9002	249AII		Install Bonnet Vent Lines on HV-251-F004A, B, C & D
96-9022	249AII	*	Delete Pipe Supports GBB-209 H1, H13, H14, H56, H64 and GBB-213 H1
97-9027	249GI		Replace Vent Line SP-DCA-210-4
96-9022	251AI		Delete Pipe Support SP-DCA-207 H5008
96-9022	251AII		Delete Pipe Supports GBB-201 H33, GBB-203 H11, DBB-213 H3 and SP-DBB H5003
96-9022	262AI		Delete Pipe Support SP-DCA-201 H5003
95-9046, 97-9026 and 97-9029	264BI		Modified Piping SP-DCA-202-1, 202-2, 250-2, 251-1 &251-2. Modified Pipe Supports SP-DCA-250-H5003 &H5004
96-9022	269AI		Delete Pipe Supports SP-HBD-6043 H9001 &H9009
89-3023	273AII		Delete Instrument Tubing at CRM Panels
89-3023	279EIII		Delete Instrument Tubing at CRM Panels
89-9065C	283BII		Delete Vent Valve 241F027C

* 5/20/98 Condition Reort 98-0853 : A clerical typing error indicates support GBB 209 H1 as being deleted. Field inspection verifies that GBB 209H 1 does exists at its proper location. The support deleted was GBB 209H 2 as shown on the NIS -2 form for system 249A II.

3-4-98 This form has been deleted and a corrected NIS-2 form has been generated for this system.

251A-I

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

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

Date: 6/19/97

Sheet: 1 of 1

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

Unit: TWO

Maintenance/WA# 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: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 251A-1, CLASS I, CORE SPRAY

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MECH SHOCK ARRESTOR	PACIFIC SCIENTIFIC	23390	N/A	DBA205 H6A	1983,	REPLACED	NO
MECH SHOCK ARRESTOR	PACIFIC SCIENTIFIC	18564	N/A	DBA205 H6A	1981	REPLACEMENT	NO

7. Description of Work: REPLACED EXISTING SNUBBER WITH SAME SIZE, FUNCTIONALLY TESTED REPLACEMENT SNUBBER.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Exempt [X] 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.

PJD 3-4-98

3-4-98 This form has been deleted and a corrected NIS-2 form has been generated for this system.

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 June 24, 19 97

Owner or Owner's Designee, Title VP-Nuc Operations

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period March 15, 1997 to May 9, 1997, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions FACTORY MUTUAL ENGINEERING ASSOCIATES NB 7525 I,B,N,A PA.2159

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

Date JUNE 24 19 97

PID 3-4-98

*Indicates corrections to NIS-2 Report From the Unit 2 - 8th RFO

251A-I

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

1. Owner Pennsylvania Power & Light Co. (Name) Date 6/19/97

Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) Unit TWO

PO Box 467, Berwick, PA 18603 (Address) *Y60150 (Maintenance/WA#)

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

3. Work Performed by Pennsylvania Power & Light Co. (Name) Type Code Symbol Stamp N/A

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

Expiration Date N/A

4. Identification of System 251A-1, CLASS I, CORE SPRAY

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MECH SHOCK ARRESTOR	PACIFIC SCIENTIFIC	*10543	N/A	*DCA 207H15	1983	REPLACED	NO
MECH SHOCK ARRESTOR	PACIFIC SCIENTIFIC	*09522	N/A	*DCA 207H15	*1982	REPLACEMENT	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Exempt ☒ Pressure _____ psi Test Temp. _____ °F

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

5-20-98 Corrected copy from the Unit 2 8th RFO.

264BI

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 05/05/97

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 5

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 95-9046 WA C63229, C63230, C63683, C63685 & C63686; DCP 97-9026 WA C73313 & C73315; DCP 97-9029 WA C73324 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Identification of System: Reactor Recirculation System / 264B Class 1

5. (a) Applicable Construction Code: III ♣ 19 71 Edition, thru W72 Addenda, N-411 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO Addenda and Code Case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" MANUAL GLOBE VALVE	BORG WARNER	15356	N/A	243F037B	1976	REPLACED (DELETED)	YES
PIPE SUPPORT (1" SPD-6 PIPE CLIP)	PP&L	N/A	N/A	SPDCA251-H5002	1995	REPLACED	NO
PIPE SUPPORT (1" SPD-6 PIPE CLIP)	PP&L	N/A	N/A	SPDCA251-H5002	1997	REPLACEMENT	NO
PIPE SUPPORT (1" SPD-8 PIPE CLIP)	PP&L	N/A	N/A	SPDCA251-H5003	1997	REPAIRED	NO
* MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	2538	N/A	SPDCA202-H2600	1977	REPLACED	NO
* MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	18830	N/A	SPDCA202-H2600	1981	REPLACEMENT	NO
SMALL PIPE ASSEMBLY	BECHTEL / PP&L	N/A	N/A	SPDCA202-2	1983 / 1994	REPLACED	YES
SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDCA202-2	1997	REPLACEMENT	NO
2" MANUAL GLOBE VALVE	BORG WARNER	18026	N/A	243F051A	1976	REPLACED	YES
2" MANUAL GLOBE VALVE	YARWAY	C3313 *	N/A	243F051A	1995	REPLACEMENT	YES
2" MANUAL GLOBE VALVE	BORG WARNER	18030	N/A	243F052A	1976	REPLACED (DELETED)	YES

PJD 5-26-98

PJD 5-26-98

* INCLUDED IN THE ISI SNUBBER APPENDIX D.4 AS INSTRUCTED BY PROCEDURE MT AD 595 paragraph 9.5.2
ISI IS RESPONSIBLE TO GENERATE NIS-2 FORMS FOR SNUBBER REPLACEMENTS AND PARTS.

5-20-98 Corrected copy from the Unit 2 8th RFO.

264BI

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: 05/05/97

Sheet: 4 of 5

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

Unit: Two

DCP 95-9046 WA C83229, C83230, C83083, C83085 & C83686; DCP 97-9026 WA C73313 & C73315; DCP 97-9029 WA C73324
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: Reactor Recirculation System / 264B Class 1

5. (a) Applicable Construction Code: III ♣ 19 71 Edition, thru W72 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO Addenda and Code Case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE SUPPORT (REMOVED SIZE 2 SPRING CAN)	BECHTEL	N/A	N/A	SPDCA202-H15	1983	REPLACED	NO
PIPE SUPPORT (INSTALLED SIZE 3 SPRING CAN)	PP&L	N/A	N/A	SPDCA202-H15	1997	REPLACEMENT	NO
~~PIPE SUPPORT~~ (REPLACED 2 HEAVY HEX NUTS) *	~~BECHTEL~~	~~N/A~~	~~N/A~~	~~SPDCA202-H21~~	~~1983~~	~~REPLACED~~	~~NO~~ 5-20-98 PJD
~~PIPE SUPPORT~~ (REPLACED 2 HEAVY HEX NUTS) *	~~PP&L~~	~~N/A~~	~~N/A~~	~~SPDCA202-H21~~	~~1997~~	~~REPLACEMENT~~	~~NO~~ 5-20-98 PJD
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21560	N/A	SPDCA202-H20	1982	REPLACEMENT (NEW)	NO
PIPE SUPPORT	PP&L	N/A	N/A	SPDCA202-H20	1997	REPLACEMENT (NEW)	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	6573	N/A	SPDCA202-H22	1978	REPLACEMENT (NEW)	NO
PIPE SUPPORT	PP&L	N/A	N/A	SPDCA202-H22	1997	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCA250-H5001	1983	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SPDCA250-H5001	1997	REPLACEMENT	NO

* INCLUDED IN THE ISI SNUBBER APPENDIX D.4 AS INSTRUCTED BY PROCEDURE MT AD 595 PARAGRAPH 9.5.2 ISI IS RESPONSIBLE TO GENERATE NIS -2 FORMS FOR SNUBBER REPLACEMENT AND PARTS.