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Harold W. Keiser
Senior Vice President–Nuclear
215/774-4194

U.S. Nuclear Regulatory Commission
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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT 1 SIXTH REFUELING AND INSPECTION OUTAGE
ISI SUMMARY REPORT
PLA-3824 **FILES R15-4, R41-2** Docket No. 50-387

Attached for your use is a copy of the Susquehanna Steam Electric Station Inservice Inspection Outage Summary Report for the Unit 1 Sixth Refueling and Inspection Outage. A copy of this report has also been sent to the Commonwealth of Pennsylvania.

If you have any questions, please contact us.

Very truly yours,

for H. W. Keiser

Attachment

cc: NRC Region I (w/o)
Mr. G. S. Barber, NRC Sr. Resident Inspector (w/o)
Mr. G. F. Maxwell, Acting NRC Project Manager (w/o)

A047

SUSQUEHANNA STEAM ELECTRIC STATION

Pennsylvania Power and Light Company

UNIT 1 SIXTH REFUELING AND INSPECTION OUTAGE

INSERVICE INSPECTION

OUTAGE SUMMARY REPORT
BOOK 1

July 24, 1992

9208060197

SUSQUEHANNA STEAM ELECTRIC STATION

Pennsylvania Power and Light Company

UNIT 1 SIXTH REFUELING AND INSPECTION OUTAGE

INSERVICE INSPECTION
OUTAGE SUMMARY REPORT

Prepared By: John T. Lindberg
ISI Engineer

Approved By: Steve Stanley
Plant Superintendent

July 24, 1992

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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 PENNSYLVANIA POWER AND LIGHT COMPANY
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 ONE 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 6/8/83 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	0-16A	N/A	N/A
FPC	BECHTEL	0-35B	N/A	N/A
ESW	BECHTEL	0-54A,B	N/A	N/A
RHRSW	BECHTEL	1-16A	N/A	N/A
FPC	BECHTEL	1-35B	N/A	N/A
FEEDWATER	BECHTEL	1-45A	N/A	N/A
RHR	BECHTEL	1-49A,B,D,E,F,G	N/A	N/A
RCIC	BECHTEL	1-50B,C	N/A	N/A
CORE SPRAY	BECHTEL	1-51A	N/A	N/A
HPCI	BECHTEL	1-52A,B	N/A	N/A
SBLC	BECTHEL	1-53A	N/A	N/A
ESW	BECHTEL	1-54A	N/A	N/A
CRD	BECHTEL/NISCO	1-55B	N/A	N/A
RWCU	BECHTEL	1-61B	N/A	N/A
RPV	CB&I	B5023	B111230	3686
Nuclear Boiler	BECHTEL	1-62A	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.

FORM- NIS-1 (back)

8. Examination Dates 11/17/90 to 05/17/92 9. Inspection Interval from 6/8/83 to 6/1/9

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 July 27 19 92 Signed [signature] By [signature]
Owner SUPT. OF PLANT

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 or Province of Pennsylvania and employed by * of _____ have inspected the components described in this Owners' Data Report during the period 11/17/90 to 05/17/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 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.

FACTORY MUTUAL SYSTEM

Date JULY 24 19 92

[signature] Commissions NB 7525 PA 2159 NJ
Inspector's Signature National Board, State, Province and No.

* ARKWRIGHT MUTUAL INSURANCE COMPANY
225 WYMAN ST.
WALTHAM, MA. 02154

FORM NIS-1 OWNERS DATA REPORT INSERVICE INSPECTIONS
CONTINUATION SHEET

1. Owner PENNSYLVANIA POWER AND LIGHT COMPANY
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 ONE 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 6/8/83 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.
RR	BECHTEL	1-64A,B	N/A	N/A
MAIN STEAM	BECHTEL	1-83A,B,C,D	N/A	N/A
MSIVLC	BECHTEL	1-83H	N/A	N/A
RHR HEAT EX.	MLW	10638-Q	469338	121
RHR HEAT EX.	MLW	10640-Q	469339	123

[illegible]

INTRODUCTION

This report will document the Inservice Inspection (ISI), test, and repair/replacement activities associated with Susquehanna Steam Electric Station (SSES) Unit 1 for its Sixth fuel cycle. This timeline encompasses work performed from the time of breaker closure after the Unit 1 Fifth Refuel and Inspection Outage up to the time the breaker was closed following the Unit 1 Sixth Refuel and Inspection Outage.

1. SSES Unit 1 began commercial operation on June 8th 1983. The unit was shut down for its Sixth refueling and inspection outage on March 6th 1992 at 2340 hours, nineteen months into its 36 month 3rd Inspection Period of the First Ten Year Interval. The refueling outage was completed on May 17, 1992.

2. The applicable year and addenda of the ASME Boiler and Pressure Vessel Code, Division 1, Section XI for SSES Unit 1 is the 1980 Edition through and including the Winter 1980 Addenda. PP&L has selected the 10-year inspection interval as prescribed in IWA-2420, Plan B. The current dates for the first Ten Year Interval are:

1st Period:	June 8, 1983 to June 8, 1986
2nd Period:	June 9, 1986 to June 8, 1990
3rd Period:	June 9, 1990 to June 1, 1994*

* *Inspection interval to be extended 358 days so that Unit 1 and Unit 2 may be brought in under the same code edition and addenda for the second ten year interval.*

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

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 committed to use the Outage Summary Report to transmit the NIS-2 Forms for ASME Section III components and R-1 Forms for ASME Section I, IV or VIII components.

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

David L. Daullary	Arkwright Mutual Insurance Co.
William R. Rogers III	225 Wyman Street
Delton E. Tillery	Waltham, Massachusetts

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 PP&L Document ISI-T-107.0. 486 inspections were performed during the U1-6RIO. The NDE contractor utilized was General Electric, King of Prussia, PA. 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 breakdown by Code Category and Item Number for all Section XI Class 1, 2, and 3 components. System Pressure Tests are covered in Section E of this abstract. This Summary includes the total number of selected components for the First Second and Third Periods. Percentages are shown for the first, second and third periods in relation to the First Interval.

3. Abstract of Conditions Noted and Corrective Action Taken

A total of 27 nonconformances were initiated during the Unit 1, Sixth Refuel and Inspection Outage for piping/components.

Four NCRs were initiated against linear indications that exceeded acceptance criteria. None were determined to be service induced by the PP&L Level III and Nuclear System Engineering. All unacceptable NCR conditions were corrected prior to returning the system to service.

The following is a synopsis of all NCRS initiated against Piping and Components:

See next page

U1-6RIO Piping & Components Non-Conformances

NCR #	COMPONENT	SYSTEM	EXPANDED	CONDITION	DISPOSITION
92-033	DBB-1131-H2 (SPRING CAN)	CS/51A	DBB1131-HX-16A GBB1013-H32, H37,H31 (ANCHOR PT.TO ANCHOR PT.)	Cold setting out of tolerance	Rework
92-036	GBB1092-H3 (SPRING CAN)	RHR/49A	GBB1092-HX-204A & H28	Cold setting out of tollerance	Rework
92-047	DBB1051-H3 (SPRING CAN)	M.S./83	DBB1052-H4 DBB1051-H1	Cold setting out of tolerance	Rework
92-048	DBB1051-H2 (SNUBBER)	M.S./83	DBB1051-H1 & H3	Holes in concrete around base plate embedment	Rework
92-050	VNBB212-17-R (WELD)	M.S./83	No, not service induced manufacturing defect per Engineering	Linear indication	Repair
92-051	GBB1061-3-A (WELD)	RHR/49	No determined to be manufacturing defect	Linear indication	Repair
92-055	DBB1041-H14 (SWAY STRUT) DBB1041-H15 (SNUBBER)	M.S./83	Yes, line walkdown due to H2	Cold set out of tolerance	Use as is
92-056	DBB1111-H1 (SPRING CAN)	HPCI/52	DBB1141-H2, H3	X Dimension out of tolerance	Reinspection - Use as is
92-057	GBB1042-H1 (SPRING CAN)	RHR/49	GBB1061-H2 AND GBB1042-H2	X Dimension out of tolerance	Reinspection- Use as is
92-073	DCA1112-H14 (SNUBBER)	RHR/49	DCA1112-H12, H38, H5, H17, H3, H40, H16, DCA1111-H3, H22, H39, H27, H29, H1, H30, H31, H34, H35, DCB1021-H1, H2, H3	Missing snap ring and loose bolting	Reinspection Use as is
92-074	RWS1001-HA6 (CONSTANT SPRING)	RXR/64A	RWS1001-HA5 AND HA7	Loose locking pin at travel stop assembly	Rework
92-075	DCA1111-H2 (SPRING CAN)	RHR/49	DCA1111-H22 and H39	X-Dimension out of tolerance	Reinspection- Use as is
92-088	HRC1051-H13 (SPRING CAN)	ESW/54C	HRC1051-H12, H14	Missing snap ring	Rework
92-096	RWS1002-H26 (SNUBBER)	RXR/64B	Not expanding detail drawing discrepancy	Bolting does not have lock nuts	Use as is
92-106	DBB1052-3M (WELD)	M.S./83	No-determined to be non-service induced per Engineering	Linear indication	Repair
92-108	GBC1014-H281 (SNUBBER)	M.S./83	Line walkdown anchor to anchor	Loose bolting	Rework
92-110	DCA1112-H17 (SNUBBER)	RHR/49	Line walkdown See NCR 92-073	Load stud not centered (+, -) 1/16"	Other- Snubber eliminated
[illegible]11	DCA1112-H5 (SNUBBER)	RHR/49I	Line walkdown See NCR 92-073	Loose bolting	Rework

-- Continued --

Continued from Previous Page

NCR #	COMPONENT	SYSTEM	EXPANDED	CONDITION	DISPOSITION
92-115	CRD Drive (Flange Bolting)	CRD/55	No-Per Engineering evaluation of bolts	Mechanical damage and corrosion pitting	Use as is
92-116	DBB1041-H4 (Sway Strut)	M.S./83	Performed line walkdown See list on NCR 92-055	Missing/loose bolting and rust	Rework
92-119	VNBB21119-E	M.S./83	No-Determined to be manufacturing flaw per Engineering	Linear indication	Repair
92-120	GBC10103-H39 (Spring Can)	M.S./835	GBC10103-H272, H265	Cold set out of tolerance	Use as is
92-121	DCA1112-H12 (Snubber)	RHR/49I	Line walkdown See hanger list on NCR 92-073	Cold set out of tolerance	Reinspection-Use as is
92-122	DCA1111-H31 (Snubber)	RHR/49I	Line walkdown See list on NCR 92-073	Loose bolting	Rework
92-123	MST0221-H6 (Spring Can)	M.S./83C	MST0221-H39, H44 out of tolerance	Loose bolting and cold set out of tolerance	Rework
92-130	DBB1041-H8 (Sway Strut)	M.S./83F	Line walkdown anchor to anchor See list on NCR 92-055	Damaged rod eye	Rework
92-131	GBC10103-H262, H269, H270, H273, H46	M.S./83	Line walkdown GBC10103-H43, H272, H262, H265, H44, H270, H269, H45, H36, HX-400C	Loose bolting	Rework
92-132	Flange Bolting	RPV/62 RHR/494	No	Galled Bolting	Replaced

NOTES:

(1) All visually rejected supports were expanded to include first support upstream and downstream. Three line walkdowns were performed for all supports between anchor points on Core Spray and Main Steam.

4. Incomplete Examinations

There were 23 examinations where access to the entire component was limited due to configurations or physical obstructions. These exams will be submitted for relief. The affected components are:

COMPONENT	DESCRIPTION	SYSTEM	COVERAGE
GBB1011-HW-2A, 2B, 2C, 2D, and H22	Pipe to lugs	C.S./51	89%
GBB1014-HW-1A, 1B, 1C, 1D, and H2	Pipe to lugs	C.S./51	89.36%
GBB1014-HW-18A, H35	Pipe to plate	C.S./51	39%
EBB1021-HW-1A, 1B, 1C 1D, and H11	Pipe to lugs	HPCI/52	*92%
DBB1212-HW-3A, 3B, 3C, 3D, and H21	Pipe to lugs	RCIC/50	88.2%
MST0222-HW-2A, 2B, 2C, 2D, 2E, 2F, 23G, 2H, H42	Pipe to lugs	M.S./83	*92%
DBB1071-1-B	Weld	RHR/49	83.8%
DCA1101-FW-1	Weld	RHR/49	*93.7%
GBB1061-HW-5A, 5B, 5C, 5D, and H5	Pipe to lugs	RHR/49	*92%
GBB1061-HW-5E, 5F, 5G, 5H, 5J, and H5	Pipe to lugs	RHR/49	*90.3%
GBB1062-HW-14A, 14B, 14C, 14D, 14E, 14F, 14G, 14H, and H14	Pipe to lugs	RHR/49	*93.9%
GBB1043-HW-2A, 2B, 2C, 2D, 6A, 6B, 6C, 6D, and H23	Pipe to lugs	RHR/49	*92%
VRRB311-2-U	Seam weld	RXR/64A	87.5%
VRRB311-2-V	Seam weld	RXR/64A	87.5%
VRRB312-10-U	Seam weld	RXR/64B	87.5%
VRRB312-3-B	Weld	RXR/64B	50%
RWS1002-HW-2A, 2B, 2C, 2D, 2E, 2F, 2G, and H26	Pipe to lugs	RXR/64B	*92%
VRRB312-3-A	Weldolet to pipe	RXR/64B	50%
DCA1031-FW-57	Pipe to pipe	RWCU/61	36%
VRRB311-2-B	Weld	RR	50%
VRRB312-10-B	Seam Weld	RR	50%
GBB1041-H57 HW-1A, 1B, 1C, 1D, HW-2A, 2B, 2C, 2D	Pipe to Lugs	RHR	*91.8%
VRRB312-10-V	Seam Weld	RR	87.5%

*Note: * Denotes exam that will invoke full coverage per Code Case N460.*

5. Applicable Code Cases

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

6. Successive Inspections

There were no successive inspection per IWB 2420 performed during the U1-6RIO.

7. Special Examinations

Five components of the RXR system were examined using General Electric's Automated "SMART" System:

COMPONENT	DESCRIPTION	SIZE	SYSTEM	TYPE EXAM	RESULTS
VRRB311-FW-A14	Sweepolet to pipe	22"	RXR/64A	45 DEG RL	Geometric indications ID
VRRB311-FW-A14M	Sweepolet to pipe	22"	RXR/64A	45 DEG RL	Geometric indcations ID
VRRB312-5-A	Elbow to pipe	12"	RXR/64B	45 DEG SHEAR	Geometric indications ID
VRRB312-6-A	Elbow to pipe	12"	RXR/64B	45 DEG SHEAR	Geometric indications ID
VRRB312-6-B	Elbow to pipe	12"	RXR/64B	45 DEG SHEAR	Geometric indications ID

REACTOR PRESSURE VESSEL INTERNAL EXAMINATIONS

1. Abstract of Examinations

RPV Internal Examinations were performed by CTS Power Services inspection personnel. CTS videotaped the components. PP&L ISI interpreted the recorded examination data. 219 components were examined during the U1-6RIO.

Between the U1-4RIO and U1-5RIO, all invessel components were re-classified to more closely align along code requirements. Components that were previously classified as B-N-1 or B-N-2 categories may now fall into new classifications. Even though the majority of components are non-code, they are treated the same as code components. Each Reactor Vessel Internal component's classification is documented in PP&L Document ISI-T-118.0:

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 code 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 two NCRs generated against Invessel ISI Components. All conditions were corrected or evaluated as acceptable for continued service per IWB-2420 prior to returning the unit to service.

NCR #	COMPONENT	CONDITION	DISPOSITION
92-070	Steam Dryer	Documentation of crack growth on Steam Dryer Support Ring	Use as is
92-113	Surveillance Specimen	Specimen holders found disengaged from lower bracket	Rework

4. Incomplete Examinations

There were (31) incomplete examinations during the U1-6RIO due to inaccessibility.

COMPONENT	COMMENTS	COVERAGE	#EXAMS
SBLC Standpipe	Accessible from one side only	50%	1
Shroud Support Legs C,E,F,K,M,N	Accessible from one side only	50%	6
Shroud Support Leg Welds C,E,F,K,M,N	Accessible from one side only	50%	6
Shroud Support Leg D and L	Inaccessible for examination	0%	2
Shroud Support Legs Welds D and L	Inaccessible for examination	0%	2
Core Support	Inaccessible for examination	0%	1
Core Support Plate Bolts	Inaccessible for examination	0%	1
Feedwater N4A, B, C, and D	Accessible on three sides	75%	4
N2J Jet Pump Riser Support Pad	Specimen Holder interference	75%	2
Top Guide	Scheduling interferences, not required this outage	0%	6

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 per IWB 2420 during the U1-6RIO.

7. Special Examinations

The inspections of Jet Pumps 1, 2, 10, 11, 12, and 20 were performed following the jet pump instrument sensing line Power uprate Project modifications (DCP 91-3022).

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-107.0. 135 examinations were performed during the U1-6RIO. The NDE Contractor utilized was General Electric, King of Prussia, PA. A detailed listing of the examinations performed are contained in Appendix E. 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 and second period in relation to the First Interval.

3. Abstract of Conditions Noted and Corrective Action Taken

NCR 92-029 was written prior to the U1-6 RIO to document incomplete coverage for the magnetic particle examinations performed on the RPV nuts during the U1-5 RIO. The RPV nuts were re-examined during the U1-6 RIO by "Coil" method to obtain complete surface examination coverage.

One NCR was generated during the U1-6RIO. NCR 92-0160 was written to document a procedure violation from NDE Procedure NUT-6. The 4 hour time limit for a calibration check was violated. The NCR was dispositioned "USE-AS-IS".

4. Incomplete Examinations

There were eighteen examinations where access was limited due to configurations or physical obstructions. These exams will be submitted for relief except where noted. There were no component inspections deferred to later outages due to schedule limitations. The affected components are as follows:

COMPONENT	DESCRIPTION	COVERAGE
Vessel Seam Weld BF	Limited coverage due to a reinforcement pad. Manual examination performed to extent possible.	* 94.2%
Vessel Seam Weld BK	Limited coverage due to permanent insulation support interference. Manual examinations performed to extent possible.	78.5%
Vessel Seam Weld BM	Limited coverage due to permanent insulation support interference. Manual examinations performed to extent possible.	78.5%
Vessel Seam Weld BG	Limited coverage due to insulation support ring interference. Manual examinations performed to extent possible.	*90.4%

--CONTINUED FROM PREVIOUS PAGE--

COMPONENT	DESCRIPTION	COVERAGE
Vessel Seam Weld BH	Limited coverage due to insulation support ring interference. Manual examinations performed to extent possible.	*92%
Vessel Seam Weld BJ	Limited coverage due to insulation support ring interference. Manual examinations performed to extent possible.	*91.8%
Vessel Seam Weld AD Top	Limited coverage due to insulation bracket interference. Manual examinations performed to extent possible.	71.4%
Vessel Seam Weld AD Bottom	Limited coverage due to nozzle interference. Manual examinations performed to extent possible.	*99.7%
Vessel Seam Weld AE Top	Limited coverage due to nozzle interference. Manual examinations performed to extent possible.	*98.8%
CRD FB Welds	Surface exam limited by interference from the position indicator tubes, shoot out steel, flange shields and high radiation conditions.	0%
SB-E	Limited coverage due to interference from an insulation support structure.	40%
N2J Noz to Vessel	Limited coverage due to nozzle interference. Manual examinations performed to extent possible.	*99.5%
N4B Bore	Feedwater nozzle bore exam limited due to thermal pad interference. Manual examinations performed to extent possible	*92%
N4D Bore	Feedwater nozzle bore exam limited due to thermal pad interference. Manual examinations performed to extent possible.	*92%
N4A IR	Feedwater nozzle inner radius exam limited due to nozzle reinforcement boss interference. Manual examinations performed to extent possible.	*92%
N4D IR	Feedwater nozzle inner radius exam limited due to nozzle reinforcement boss. Manual examinations performed to extent possible.	*92%
N5A Noz to SE	Core Spray nozzle to vessel exam limited due to the taper-configuration of the safe-end. No manual exams performed.	*92.3%
N5B Noz to SE	Core Spray nozzle to vessel exam limited due to the taper-configuration of the safe-end. No manual exams performed.	*91.7%

* *Denotes exam that will invoke full coverage per 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 per IWB 2420 performed during the Unit 1-6RIO.

7. Special Examinations

Eight Reactor Recirculation nozzles, six Feedwater nozzles and two Core Spray nozzles were examined using General Electric's Automated "SMART" 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	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N2C NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N2D NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N2E NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N2G NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N2H NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N2J NOZ-SE	Recirc Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications
N4A NOZ-SE	Feedwater Discharge (CS to CS)	12"	45 Shear	Geometric Indications
N4B NOZ-SE	Feedwater Discharge (CS to CS)	12"	45 Shear	Geometric Indications
N4C NOZ-SE	Feedwater Discharge (CS to CS)	12"	45 Shear	Geometric Indications
N4D NOZ-SE	Feedwater Discharge (CS to CS)	12"	45 Shear	Geometric Indications
N4E NOZ-SE	Feedwater Discharge (CS to CS)	12"	45 Shear	Geometric Indications
N4F NOZ-SE	Feedwater Discharge (CS to CS)	12"	45 Shear	Geometric Indications
N5A NOZ-SE	Core Spray Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indicartions
N5B NOZ-SE	Core Spray Discharge (CS to SS)	12"	45 Shear 45 & 60 RL	Geometric Indications

These exams may also be used as pre-stress improvement PSI.

E. SYSTEM PRESSURE TESTS

1. Abstract of Tests Conducted

CLASS 1 PARTIAL PENETRATION WELDS IN VESSELS - CODE CAT. B-E

INCORE PENETRATION COORDINATES		
56-41	48-49	
CONTROL ROD DRIVE PENETRATION COORDINATES		
50-47	50-51	54-43
58-27	58-31	58-35
58-39	58-43	54-47

SYSTEM PRESSURE TESTS AND HYDROSTATIC TESTS

TEST BOUNDARY	CLASS	CODE CATEGORY	TEST PROCEDURE
CLASS 1 Boundary	1	B-P	SE-100-002
N16B Nozzle	1	B-P	SE-100-002
FEEDWATER	2	C-H	SE-145-301
RCIC	2	C-H	SE-150-301
HPCI	2	C-H	SE-152-301
CORE SPRAY	2	C-H	SE-151-301
ESW A LOOP	3	D-A	SE-154-310
ESW B Loop	3	D-A	SE-154-311
ESW (Unit 1 and Common)	3	D-A	SE-054-301

2. Code Compliance Summary

The above tests fulfill the requirements of the ten year system hydrostatic pressure test.

3. Abstract of Conditions Noted and Corrective Action Taken

Through wall leakage on the pressure retaining boundary of the systems was identified. During performance of A and B ESW Hydrostatic testing leaks were found during the inspections. The through wall leakage was found at the flex hose connections to the RCIC and RHR room coolers. All leaks were documented and corrected by PP&L Maintenance Personnel. The flexible hoses were replaced and retested. The mode of failure was corrosion pitting. Further investigation of this problem is under evaluation.

4. Incomplete Examinations

There were no incomplete examinations during the U1-6RIO.

5. Applicable Code Cases

No Code Cases were used during the Unit 1-6RIO

6. Successive Inspections

There were no successive inspections per IWB 2420 performed during the U1-6RIO

7. Special Examinations

There were no special examinations performed during the U1-6RIO.

F. MECHANICAL SNUBBER FUNCTIONAL TESTS

1. Abstract of Examinations

A total of 670 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 Specification 3/4.7.4, Snubbers. PP&L previously submitted relief request #1RR-9 requesting specific relief from the requirements of IWF-5000 in ASME Section XI. This relief request is contained in document ISI-T-106, Inservice Inspection Program Plan First Ten Year Inspection Interval.

2. Code Compliance Summary

Per relief request #1RR-9, the functional testing of snubbers was conducted in accordance with the Plant Technical Specification 3/4.7.4. The requirements of this specification were satisfied.

3. Abstract of Conditions Noted and Corrective Actions Taken

a. The testing options allowed by Unit 1 Technical Specifications resulted in snubbers being classified into one group for testing. This consisted of:

Size 1/4	Amount in Initial Sample	31
Size 1/2	Amount in Initial Sample	10
Size 1	Amount in Initial Sample	8
Size 3	Amount in Initial Sample	11
Size 10	Amount in Initial Sample	12
Size 35	Amount in Initial Sample	28
Size 100	Amount in Initial Sample	4
Comp Struts	Amount in Initial Sample	1
	TOTAL:	105

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

Size 1/4	Amount in Initial Sample	1
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	2
	TOTAL:	8

b. The following results were achieved during the testing:

SIZE	TOTAL	#TESTED	#FAILED
1/4	450	236	22
1/2	163	43	0
1	143	50	1
3	180	60	1
10	187	52	1
35	44	196	3
100	65	32	3
.05	5	0	0
.12	4	0	0
	1639	670	30

c. The snubbers that failed testing were repaired or replaced. In either case, the snubbers (repaired or replaced) 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.

d. During testing of the special case snubbers, 7 of the 27 snubbers failed. Four were replaced with functionally acceptable ones. The other three failures were eliminated from the field. Fourteen special case snubbers were eliminated. Now there are only thirteen special case snubbers.

e. A reduction program was also performed during this outage. A total of 548 snubbers were removed from service and not reinstalled. Each of these snubbers were functionally tested with the acceptable ones becoming spares and the rejected ones either being repaired or scrapped.

f. A total of 31 nonconformances were initiated during U1-6RIO functional testing. All conditions were repaired, reworked, or evaluated acceptable for continued service.

-- See Next Page --

The following is a synopsis of NCRs initiated against snubbers for the outage:

NCR #	SYSTEM	COMPONENT	CONDITION	DISPOSITION
92-0157	83	DBB 102 H9	Internal torque broken	Rework
92-0150	83	DBB 102 H12	Cold set	Rework
92-141	92	EBD 113 H7, H9	Cold set	Rework
92-131	83	GBC 101 H262, H273	Loose jam nut	Rework
92-130	83	DBB 1041 H10	Cold set	Rework
92-127	83	SP DCA 128 H2062	NDE required	Rework
92-121	49	DCA 111 H12	Cold set	Use as is
92-110	49	DCA 111 H17	Load stud not centered	Rework
92-108	83	GBC 101 H281	Load stud missing	Rework
92-096	49	RWS 100 H26	Missing part	Rework
92-089	64	DCA 102 H3, N4A	Fluid spilled on units	Rework
92-089	54	HRC 105 H13	Missing return ring	Rework
92-087	83	GBC 101 H107 SP-HCC 131 H2019	Cold set	Use as is
92-085	n/a	Various	Procedure violation	Use as is
92-084	93	EBD 102 H55B	Cold set	Use as is
92-080	n/a	Various	Procedure violation	Use as is
92-079	64	SP DCA 121 H24	Cold set	Use as is
92-078	64	SP DCB 105 H11A SP DCB 120 H2001	Cold sets	Use as is
92-073	49	DCA 111 H14	Load stud alignment	Rework
92-071	83	DBB 101 H10B	Cold sets	Use as is
92-067	45	DLA 102 H8B	Rear bracket "s" dimension	Rework
92-062	45	DLA 102 H8B	Cold set	Rework
92-061	64	DCA 102 H7 SP-DCB 105 H2206	Cold sets	Use as is
92-059	49	RWS 100 H39, H46,H47	Cold sets	Use as is
92-055	83	DBB 104 H15	Cold set	Use as is
92-054	83	DBB 101 H13	Cold set / clevis	Use as is
92-053	16	SP HRC 136 H1001	Cold set	Use as is
92-048	83	DBB 105 H2	Holes in concrete	Rework
92-045	n/a	Various	Procedure violation	Use as is
92-044	84	HBD 101 H1	Cold set	Use as is
92-040	93	MSL 100 H9A	Procedure violation-Tag	Rework

4. Detailed Listing

a. Procedure utilized: AD-QA-195 Rev 5.

b. Snubbers tested: See tables below and on the next page for a summary of the Category, size, number tested, and number of failures.

c. The Functional Test Tracking Report lists snubbers that were tested, replaced, or not replaced due to the snubber reduction program (See Appendix C.1).

d. The NIS-2 Forms for repairs/replacements are listed in Appendix D.4

UNIT 1 - 6th FUNCTIONAL TESTING PLAN

SIZE	POP.	I.S.	FAIL
1/4	420	31	0
1/2	159	10	0
1	124	8	0
3	147	11	0
10	154	12	0
35	409	28	0
100	50	4	0
C.S.	11	1	0
Non Tech Spec	71	8	0

SPARES TESTED

SIZE:	PSA - 1/4	PSA - 1	PSA - 35	PSA - 100	TOTAL
TOTAL TESTED:	4	1	5	6	16
QUANTITY FAILED:	0	0	1	2	3

UNIT 1 - 6RIO
SNUBBER FUNCTIONAL TESTING SUMMARY

Note: Failure Quantities Shown in ( )

SIZE	SCHEDULED TESTS						ADDITIONAL TESTS			
PSA - ¼	31 (0)	1 (0)	7 (0)	19 (7)	2 0	60 (7)	176 (15)	- -	176 (15)	236 (22)
PSA - ½	10 (0)	-- --	3 (0)	-- --	1 (0)	14 (0)	29 (0)	- -	29 0	43 (0)
PSA - 1	8 (0)	1 (0)	9 (0)	1 (0)	1 (0)	20 (0)	30 (0)	- -	30 (0)	50 (0)
PSA - 3	11 (1)	2 (0)	5 (0)	7 (0)	2 (0)	27 (0)	32 (1)	1 (0)	33 (1)	60 (1)
PSA - 10	12 (0)	2 (0)	3 (1)	-- --	9 (0)	26 (1)	26 (0)	- -	26 (0)	52 (1)
PSA - 35	28 (0)	2 (0)	3 (0)	-- --	6 (1)	39 (1)	157 (2)	-- --	157 (2)	196 (3)
PSA - 100	4 (0)	- -	8 (0)	-- --	7 (2)	19 (2)	13 (1)	-- --	13 (1)	32 (3)
PSB - .05	1 (0)	-- --	-- --	-- --	-- --	(1) (0)	-- --	-- --	-- --	1 (0)
PSB - .12	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
TOTALS:	105 (0)	8 (0)	38 (1)	27 (7)	29 (3)	206 (11)	463 (19)	1 (0)	464 (19)	670 (30)

KEY:

()-Number failed

C. MECHANICAL SNUBBER VISUAL EXAMINATIONS

1. Abstract of Examinations

No visual examinations were performed during the Unit 1-6th RIO. The next visual examinations are scheduled for the Unit 1-7th RIO. The Technical Specification governing snubbers was changed relieving ISI from performing snubber visuals for this cycle.

2. Code Compliance Summary

Not applicable. The visual examinations are not Section XI visual examinations. They are performed in accordance with Plant Technical Specification 3/4.7.4.

3. Abstract of Conditions Noted and Corrective Actions Taken

None documented none applicable.

4. Incomplete Examinations

There were no incomplete examinations

5. Applicable Code Cases

No code cases were used since snubber visual examinations are not code exams.

6. Successive Inspections

There were no successive inspections

7. Special Examinations

There were no special examinations performed during the U1-6RIO.

EROSION/CORROSION EXAMINATIONS

1. Abstract of Examinations

General Electric performed non-code erosion/corrosion wall thickness examinations during the U1-6RIO. Scope of work was provided by PP&L Specification M-1414, Rev 5. A total of 154 components examined (see Appendix F of this report).

2. Code Compliance Summary

Not applicable since Erosion/Corrosion exams are not part of Section XI. However, a list of inspected components and 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	28
2	21% to 30% Erosion	26
3	31% to 50% Erosion	39
4	51% to 99% Erosion	23
5	Erosion ≥ 100% Erosion	38

Percent erosion is determined as follows:

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

-- See Next Page --

The following lines and related E/C components were scheduled and replaced with P22 material during the U1-6RIO.

UNIT 1-6, RIO P22 PIPE REPLACEMENTS

LINE/SIZE	SYSTEM	E/C Comp.	COMMENTS
SPHAD 148-1 1"	Condenser Drain	X-579 X-581	Pipe Replacement approx. 8' via WA C13795 / DCP 88-3062B
SPGAD 162-1 1"	AUX. Steam	X-135	Pipe Replacement approx. 4'via ECO 88-3062F / WA V13129
SPGAD 102-3 2" SPGAD 102-4 2"	EXT. Steam	X-127 X-589 X-26	Approx. 140' of line was replaced via ECO 91-6083A and WA C13879
SPGAD 102-1 2" SPGAD 102-2 2"	EXT Steam	X-193 X-194 X-590	Replaced approx. 120' of line via ECO 91 6083B and WA C13860
SPGAD 102-5 2" SPGAD 102-6 2"	EXT Steam	X-196 X-591 X-195	Approx. 100' of line was replaced via ECO 91 6083C and WA C13857
SPEAD 114-1 1"	HPCI	X-134 X-435	Approx 300' of line was replaced via ECO 91-6082 and WA C13882
SPEAD 114-3 1"	RCIC Stm. Drain	X-133 X-232	Approx 80' of line was replaced via ECO 91-6085 and WA C13885
SPEAD 114-8 1"	HPCI-RCIC Stm. Drn.	X-190A X-190B X-110 X-111	Approx 10' of line was replaced via ECO 91-6086 and WA C13853
HFD 101-2 16"	4th Stage Extraction Steam	X-250	Approximately 2'of spool replaced via ECO 91-6081 and WA C13763

Of the 153 components inspected (6) third stage Extraction Steam components were replaced, (4) 3rd stage Extraction Steam components were repaired and (24) 3rd stage Extraction Steam were recommended for possible replacement for the Unit 1-7 RIO. In addition (9) fourth stage Extraction Steam components were recommended for possible replacement during the Unit 1-7 RIO. An automated weld build-up was performed on Feedwater Tee "X-175". This component will be inspected and evaluated during the Unit 1-7 RIO. A summary of all erosion EWR's follows.

UNIT 1-6 RIO STANDARD PIPE REPLACEMENTS

EWR#/COMP#	LINE SIZE	SYSTEM	ERO %	COMMENTS
M20053 HBD1091-E10	HBD1091 26"	3rd Extraction Steam	212%	Replaced 45 deg. elbow per WA S23537 ECO 92-6009
M20113 HBD1091-E7	HBD1091 18"	3rd Extraction Steam	162%	Replaced pipe by WA S23605 ECO 92-6009
M29167 HBD1092-E11	HBD1092 26"	3rd Extraction Steam	162%	Replaced 90 deg. elbow per WA S23550 ECO 92-6009
M20073 HBD1092-E4	HBD1092 18"	3rd Extraction Steam	156%	Replaced 45 deg. elbow per WA S23605 ECO 92-6009
M20077 HBD1092-E9	HBD1092 18"	3rd Extraction Steam	198%	Replaced pipe by WA S23551 ECO 92-6009
M29164 HBD1093-E9	HBD1093 26"	3rd Extraction Steam	182%	Replaced 90 deg. elbow per WA S23551 ECO 92-6009

UNIT 1-6 RIO PIPE REPAIRS

EWR/ COMP#	LINE SIZE	SYSTEM	ERO %	COMMENTS
M20111 HBD1091-E2	HBD1091 26"	3rd Extraction Steam	142%	Performed weld overlay of pipe per WA S23606
M20060 HBD10902-E7	HBD1092 20"	3rd Extraction Steam	157%	Performed weld overlay per WA S23606
M20061 HBD1092-E10A	HBD1092 26"	3rd Extraction Steam	190%	Performed weld overlay per WA S23606
M29165 HBD1092-E13	HBD1092 26"	3rd Extraction Steam	146%	Performed weld overlay per WA S23606
M20141 DLA1021 X-175B	DLA1021 12"	Feedwater	96%	Performed Auto weld build-up Per DCP 92-9024
M20062 HFD1011-E2 X-14	HFD1011 16"	4th Extraction Steam	166%	Performed weld overlay per WA S23607
VM20065 HFD1013-E2 X-251	HFD1013 16"	4th Extraction Steam	148%	Performed weld overlay per WA S23607
M20064 HFD1013-E1 X-254	HFD1013 16"	4th Extraction Steam	154%	Performed weld overlay per WA S23607

All repaired components are recommended for possible replacement during the Unit 1 7RIO. In addition, the following components are also recommended for possible replacement during the Unit 1-7 RIO.

UNIT 1-7 RIO RECOMMENDED PIPE REPLACEMENTS

EWR # Comp.#	LINE/SIZE	SYSTEM	ERO %	COMMENTS
M20121 HBD1091-E12	HBD1091 26"	3rd Extraction Steam	108%	Recommended replacement Unit 1-7 RIO
M20116 HBD1091-E13	HBD1091 18"	3rd Extraction Steam	93%	Recommended replacement Unit 1-7 RIO
M20014 HBD1091-E14	HBD1091 18"	3rd Extraction Steam	122%	Recommended replacement Unit 1-7 RIO
M201112 HBD1091-E6	HBD1091 18"	3rd Extraction Steam	130%	Recommended replacement Unit 1-7 RIO
M20061 HBD1092-E10B	HBD1092 26"	3rd Extraction Steam	145%	Recommended replacement Unit 1-7 RIO
M29153 HBD1092-E12	HBD1092 26"	3rd Extraction Steam	109%	Recommended replacement Unit 1-7 RIO
M20093 HBD1092-E14	HBD1092 26"	3rd Extraction Steam	134%	Recommended replacement Unit 1-7 RIO
M20072 HBD1092-E2	HBD1092 26"	3rd Extraction Steam	124%	Recommended replacement Unit 1-7 RIO
M20090 HBD1092-E5	HBD1092 26"	3rd Extraction Steam	132%	Recommended replacement Unit 1-7 RIO
M20080 HBD1092-E6	HBD1092 18"	3rd Extraction Steam	126%	Recommended replacement Unit 1-7 RIO
M20076 HBD1092-E8	HBD1092 18"	3rd Extraction Steam	132%	Recommended replacement Unit 1-7 RIO
M20117 HBD1093-E1	HBD1093 26"	3rd Extraction Steam	126%	Recommended replacement Unit 1-7 RIO
M20079 HBD1093-E11	HBD1093 18"	3rd Extraction Steam	134%	Recommeded replacement Unit 1, 7 RIO

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EWR #	LINE/SIZE	SYSTEM	ERO %	COMMENTS
M20078 HBD1093-E12	HBD1093 18"	3rd Extraction Steam	126%	Recommended Replacement Unit 1-7 RIO
M20118 HBD1093-E2	HBD1093 26"	3rd Extraction Steam	74%	Recommended Replacement Unit 1-7 RIO
M21095 HBD1081-E2	HBD1081 16"	2nd Extraction Steam	155%	Recommended Replacement Unit 1-7 RIO
M20148 HFD1013-E3	HFD1013 16"	4th Extraction Steam	93%	Recommended Replacement Unit 1-7 RIO
M20104 HBD1O91-E4	HBD 109-1 26"	3rd Extraction Steam	102%	Recommended Replacement U1-7 RIO
M20115 HBD1091-E5	HBD 109-1 26"	3rd Extraction Steam	118%	Recommended Replacement U1-7 RIO
M20105 HBD1092-E1	HBD 109-1 26"	3rd Extraction Steam	135%	Recommended Replacement U1-7 RIO
M20081 HBD1093-E3	HBD 109-3 26"	3rd Extraction Steam	145%	Recommended Replacement U1-7 RIO
M20091 HBD1093-E4A	HBD 109-3 26"	3rd Extraction Steam	134%	Recommended Replacement U1-7 RIO
M29168 HBD1093-E6A	HBD 109-3 26"	3rd Extraction Steam	137%	Recommended Replacement U1-7 RIO
M29163 HBD1093-E7	HBD 109-3 26"	3rd Extraction Steam	137%	Recommended Replacement U1-7 RIO
M29166 HBD1093-E8	HBD 109-3 26"	3rd Extraction Steam	140%	Recommended Replacement U1-7 RIO
M20052 HBD1091-E3 X-240B	HBD 1091-3 20"	3rd Extraction Steam	137%	Recommended Replacement U1-7 RIO

INSPECT UNIT 1-7 RIO

EWR #	LINE/SIZE	SYSTEM	ERO %	COMMENTS
M20176 GBD1182-E1 X-150	GBD 118-2 20"	Feedwater	58%	Inspect Next Outage
M20054 GBD1022-E2 X-154	GBD 102-2 4"	Extraction Steam Drain	72%	Inspect Next Outage
M20055 GBD1021-E2 X-155	GBD 102-1 4"	Extraction Steam Drain	60%	Inspect Next Outage
M20139 FCI-P49-951-E2 X-174	FCI-P49-951 26"	Main Steam	81%	Inspect Next Outage
M20138 DLA1021-E5 X-177	DLA 102-1 12"	Feedwater	66%	Inspect Next Outage
M20056 SPGBD1254-E1 X-206	SPGBD125-4 1"	MCPR Drain	63%	Inspect Next Outage
M20063 SPHBD110-8 E2 X-27	SPHBD110-8 2"	Extraction Steam Drain	70%	Inspect Next Outage
M20168 FCIP49-951-1 E1 X-459	FCIP49-951-1 26"	Main Steam	111%	Inspect Next Outage
M20167 FCIP49-953-1 E-2 X-460	FCIP49-953-1 26"	Main Steam	107%	Inspect Next Outage
M20166 FCIP49-952-1 E2 X-462	FCIP49-952-1 26"	Main Steam	65%	Inspect Next Outage
M20165 FCIP49-951-1 E4 X-464	FCIP49-951-1 26"	Main Steam	96%	Inspect Next Outage

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EWR #	LINE/SIZE	SYSTEM	ERO %	COMMENTS
M20140 GBD1252-E1 X482B	GBD125-2 4"	MCPR	63%	Inspect Next Outage
M20120 SPHBD3023-10E1 X-634	SPHBD3023-10 1.5"	Aux. Boiler Drain	96%	Inspect Next Outage
M20137 GAD1011-E1 X-12	GAD 101-1 10"	MSEPD	84%	Inspect Next Outage
M20196 HBD1081-E1 X-15	HBD 108-1 24"	Second Extraction Steam	82%	Inspect Next Outage

NO ACTION REQUIRED

EWR #	LINE/SIZE	SYSTEM	ERO %	COMMENTS
M20103 HBD1092-E3A	HBD 109-2 26"	3rd Extraction Steam	66%	No Action Required
M20074 HBD1093-E13	HBD109-3 18"	3rd Extraction Steam	70%	No Action Required
M20075 HBD1093-E14	HBD 109-3 18"	3rd Extraction Steam	82%	No Action Required
M20121 DBD1051-E7A X-68A	DBD105-1 16"	Feedwater	60%	No Action Required

The following 4th Extraction Steam line components were partially examined using UT. These examinations covered 4" down stream from the exit weld. Low areas were repaired with a weld overlay and are recommended for replacement during the Unit 1, 7RIO.

UNIT 1-6 RIO PARTIAL UT EXAMINATIONS

EWR#/COMP.	LINE/SIZE	SYSTEM	ERO%	COMMENTS
M20174/ HFD1011-E5	HFD101-1 16"	4th Extraction Steam	N/A	Component repaired with weld overlay per WA S23730
N/A/ HFD1012-E5	HFD101-2 16"	4th Extraction Steam	N/A	Component repaired with weld ovrerlay per WA S23607
M20175/ HFD1013-E4	HFD101-3 16"	4th Extraction Steam	N/A	Component repaired with weld overlay per WA S23685
M20160/ HFD1013-E5	HFD101-3 16"	4th Extraction Steam	N/A	Component repaired with weld overlay per WA S23657
M20159/ HFD1013-E6	HFD101-3 16"	4th Extraction Steam	N/A	Component repaired with weld overlay per WA S23657

4. Incomplete Examinations

There were incomplete examinations identified on each individual data package. These incomplete examinations were due to physical interferences (instrument taps, clamps, etc.). In all cases, greater than 90% exam coverage was obtained.

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 performed by Nuclear System Engineering in accordance with erosion rates identified in Specification M-1414. There were 61 components inspected having greater than 50.1% erosion. These exams are tentatively scheduled to be examined during the U1-7RIO.

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 U1-5RIO (breaker close) to the end of the U1-6RIO (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. 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. The Modifications Installation Group (MIG) 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. E&S Construction conducts repairs delegated to them by Mechanical Maintenance. This work is completed under the WA process and is documented on NIS-2 Forms. The detailed listing of work performed is summarized in Appendix D.3 along with the NIS-2 Forms.

6. 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.4 contains the NIS-2 Forms.

CODE COMPLIANCE SUMMARY

CODE COMPLIANCE SUMMARY - UNIT 1 6TH REFUELING AND INSPECTION OUTAGE

(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INT EXAMS	1ST PER SCH	1ST PER P/C REC	2ND PER SCH	2ND PER P/C REC	3RD PER SCH	5TH RFO P/C REC ACTUAL	6-RFO EXAMS SCHED	6-RFO P/C	% 1ST & 2ND PER OVER 1ST INT	% 1ST:2ND PER 5 & 6 RFO OVER 1ST INT
AUG1	AUG1	X-EOI	129	33	33	54	54	42	25	16	16	67.44	99.22
AUG2	AUG2	X-CATA	4	2	2	2	2	0	0	0	0	100.00	100.00
		X-CATB	63	27	34	12	12	19	8	11	11	73.02	103.17
		X-CATC	59	3	3	23	23	33	14	19	19	44.07	100.00
AUG3	AUG3	X-AUG3A	54	18	18	18	18	18	0	18	18	66.67	100.00
		X-AUG3B	12	0	0	6	6	6	6	0	0	50.00	100.00
		X-AUG3C	2	2	0	0	0	0	0	0	0	.00	.00
AUG4	AUG4	X-AUG4	3	3	3	0	0	0	0	0	0	100.00	100.00
AUG5	AUG5	X-PSI	6	0	0	0	0	6	0	6	0	.00	.00
		X-RE	40	0	0	0	0	40	20	20	20	.00	100.00
AUG6	AUG6	X-EOI	1	0	0	0	0	1	0	1	1	.00	100.00
		X-OWA	1	0	0	0	0	1	0	1	1	.00	100.00
		X-PSI	22	0	0	0	0	22	0	22	0	.00	.00
		X-RE	100	0	0	0	0	100	50	50	50	.00	100.00
		X-RO	257	0	0	0	0	257	257	0	0	.00	100.00
AUG7	AUG7	X-RE	120	0	0	0	0	120	59	61	61	.00	100.00
AUG8	AUG8	X-PSI	8	0	0	0	0	8	0	0	0	.00	.00
B-A	B1.11	X-EOI	10	0	0	6	6	4	0	4	4	60.00	100.00
	B1.12	X-EOI	13	0	0	5	5	8	0	8	8	38.46	100.00
	B1.21	X-EOI	1	0	0	1	1	0	0	0	0	100.00	100.00

REPORT DATE: 07/24/92

CODE COMPLIANCE SUMMARY - UNIT 1 6TH REFUELING AND INSPECTION OUTAGE

(ASME SECTION XI APPENDIX B.3 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INT EXAMS	1ST PER SCH	1ST PER P/C REC	2ND PER SCH	2ND PER P/C REC	3RD PER SCH	5TH RFO P/C REC ACTUAL	6-RFO EXAMS SCHED	6-RFO P/C	% 1ST & 2ND PER OVER 1ST INT	% 1ST:2ND PER 5 & 6 RFO OVER 1ST INT
B-A	B1.21	X-ID	3	1	1	1	1	1	1	0	0	66.67	100.00
	B1.22	X-EOI	8	0	0	8	8	0	0	0	0	100.00	100.00
		X-ID	6	2	2	2	2	2	2	0	0	66.67	100.00
	B1.30	Z	3	1	1	1	1	1	1	0	0	66.67	100.00
	B1.40	X-ID	6	2	2	2	2	2	2	0	0	66.67	100.00
B-D	B3.100	Z	30	10	10	12	12	8	0	8	8	73.33	100.00
	B3.90	Z	30	10	10	10	10	10	6	4	4	66.67	100.00
B-E	B4.11	X-ID	1	1	1	0	0	0	0	0	0	100.00	100.00
	B4.12	X-ID	47	16	16	13	13	18	9	9	9	61.70	100.00
	B4.13	X-ID	16	6	6	5	5	5	2	3	3	68.75	100.00
B-F	B5.10	Z	34	10	10	18	18	6	2	4	4	82.35	100.00
	B5.50	X-ID	8	2	2	2	2	4	0	4	4	50.00	100.00
		Z	4	0	0	4	4	0	0	0	0	100.00	100.00
	B5.51	X-ID	1	0	0	0	0	1	0	1	1	.00	100.00
B-G-1	B6.10	X-EOI	76	0	0	0	0	76	0	76	76	.00	100.00
	B6.180	X-EOI	16	0	0	0	0	16	16	0	0	.00	100.00
	B6.190	X-D	32	0	0	0	0	0	0	0	0	.00	.00
	B6.20	X-EOI	86	0	0	76	76	10	0	0	0	88.37	88.37
	B6.200	X-EOI	16	0	0	0	0	16	16	0	0	.00	100.00
	B6.30	X-B	8	0	0	4	4	4	4	0	0	50.00	100.00

REPORT DATE: 07/24/92

CODE COMPLIANCE SUMMARY - UNIT 1 6TH REFUELING AND INSPECTION OUTAGE

(ASME SECTION XI APPENDIX B.3 ---- SYSTEM PRESSURE TESTS NOT INCLUDED,

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INT EXAMS	1ST PER SCH	1ST PER P/C REC	2ND PER SCH	2ND PER P/C REC	3RD PER SCH	5TH RFO P/C REC ACTUAL	6-RFO EXAMS SCHED	6-RFO P/C	% 1ST & 2ND PER OVER 1ST INT	% 1ST:2ND PER 5 & 6 RFO OVER 1ST INT
B-G-1	B6.40	X-D	4	0	0	0	0	4	4	0	0	.00	100.00
	B6.50	X-EOI	76	0	0	76	76	0	0	0	0	100.00	100.00
B-G-2	B7.50	X-ID	33	9	9	4	4	20	8	12	12	39.39	100.00
	B7.70	X-ID	40	22	22	7	7	11	4	7	7	72.50	100.00
	B7.80	X-D	176	57	57	70	70	49	25	24	24	72.16	100.00
B-H	B8.10	X-ID	11	3	3	3	3	5	3	2	2	54.55	100.00
B-J	B9.11	X-ID	314	100	100	98	98	116	64	52	52	63.06	100.00
	B9.12	X-ID	133	25	24	55	54	53	26	27	27	58.65	98.50
	B9.21	X-ID	6	2	2	1	1	3	0	3	3	50.00	100.00
	B9.31	X-ID	18	4	4	8	8	6	0	6	6	66.67	100.00
	B9.40	X-ID	14	4	4	5	5	5	3	2	2	64.29	100.00
B-K-1	B10.10	X-ID	93	28	28	29	29	36	12	24	24	61.29	100.00
B-L-2	B12.20	X-D	2	0	0	0	0	0	0	0	0	.00	.00
B-M-2	B12.40	X-D	20	0	0	5	5	8	2	6	6	25.00	65.00
B-N-1	B13.10	X-RE	22	0	0	20	20	2	1	1	1	90.91	100.00
		X-RO	339	128	128	202	202	10	10	0	0	97.35	100.29
B-N-2	B13.20	X-EOI	63	6	6	44	45	13	0	12	12	80.95	100.00
		X-OWA	14	0	0	0	0	12	0	12	12	.00	85.71
		X-RO	4	0	0	0	0	4	0	4	4	.00	100.00
	B13.21	X-EOI	12	1	1	7	7	4	0	3	3	66.67	91.67

REPORT DATE: 07/24/92

CODE COMPLIANCE SUMMARY - UNIT 1 6TH REFUELING AND INSPECTION OUTAGE

(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INT EXAMS	1ST PER SCH	1ST PER P/C REC	2ND PER SCH	2ND PER P/C REC	3RD PER SCH	5TH RFO P/C REC ACTUAL	6-RFO EXAMS SCHED	6-RFO P/C	% 1ST & 2ND PER OVER 1ST INT	% 1ST:2ND PER 5 & 6 RFO OVER 1ST INT
B-N-2	B13.21	X-OWA	386	0	0	0	0	78	28	26	26	.00	13.99
B-O	B14.10	X-EOI	8	0	0	0	0	8	0	8	8	.00	100.00
C-A	C1.10	X-ID	1	0	0	1	1	0	0	0	0	100.00	100.00
	C1.20	X-ID	1	0	0	1	1	0	0	0	0	100.00	100.00
C-B	C2.21	X-ID	4	0	0	2	2	2	0	2	2	50.00	100.00
	C2.22	X-ID	2	0	0	1	1	1	0	1	1	50.00	100.00
C-C	C3.10	X-ID	8	4	4	1	1	3	0	3	3	62.50	100.00
	C3.40	X-ID	381	113	113	114	114	154	62	92	92	59.58	100.00
C-F	C5.11	X-ID	63	22	22	20	20	21	11	10	10	66.67	100.00
	C5.21	X-ID	114	40	40	34	34	40	18	22	22*	64.91	100.00
	C5.31	X-ID	6	2	2	2	2	2	1	1	1	66.67	100.00
C-F*	C5.11	X-ID	16	5	5	5	5	6	1	5	5	62.50	100.00
	C5.21	X-ID	20	6	6	6	6	8	2	6	6	60.00	100.00
	C5.22	X-ID	2	0	0	0	0	2	0	2	2	.00	100.00
	C5.31	X-ID	2	0	0	2	2	0	0	0	0	100.00	100.00
C-G	C6.10	X-D	1	0	0	0	0	1	0	0	0	.00	.00
		X-ID	15	5	5	5	5	5	3	2	2	66.67	100.00
D-B	D2.20	X-1P	9	9	9	0	0	0	0	0	0	100.00	100.00
		X-2P	14	0	0	14	14	0	0	0	0	100.00	100.00
		X-3P	9	0	0	0	0	9	4	5	5	.00	100.00

REPORT DATE: 07/24/92

CODE COMPLIANCE SUMMARY - UNIT 1 6TH REFUELING AND INSPECTION OUTAGE

(ASME SECTION XI APPENDIX B.1. ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INT EXAMS	1ST PER SCH	1ST PER P/C REC	2ND PER SCH	2ND PER P/C REC	3RD PER SCH	5TH RFO P/C REC ACTUAL	6-RFO EXAMS SCHED	6-RFO P/C	% 1ST & 2ND PER OVER 1ST INT	% 1ST:2ND PER 5 & 6 RFO OVER 1ST INT
D-B	D2.30	X-1P	1	1	1	0	0	0	0	0	0	100.00	100.00
		X-2P	2	0	0	2	2	0	0	0	0	100.00	100.00
	D2.40	X-1P	9	9	9	0	0	0	0	0	0	100.00	100.00
		X-2P	4	0	0	4	4	0	0	0	0	100.00	100.00
		X-3P	6	0	0	0	0	6	2	4	4	.00	100.00
	D3.30	X-3P	1	0	0	0	0	1	0	1	1	.00	100.00
D-C	D3.20	X-2P	2	0	0	2	2	0	0	0	0	100.00	100.00
	D3.40	X-2P	1	0	0	1	1	0	0	0	0	100.00	100.00
		X-3P	1	0	0	0	0	1	1	0	0	.00	100.00
F-PMP	F-CSP	X-1P	1	1	1	0	0	0	0	0	0	100.00	100.00
	F-EWP	X-2P	1	0	0	1	1	0	0	0	0	100.00	100.00
	F-HIP	X-3P	2	0	0	0	0	2	0	2	2	.00	100.00
	F-RCP	X-1P	13	13	13	0	0	0	0	0	0	100.00	100.00
		X-2P	2	0	0	2	2	0	0	0	0	100.00	100.00
		X-3P	1	0	0	0	0	1	0	1	1	.00	100.00
	F-RHP	X-3P	1	0	0	0	0	1	0	1	1	.00	100.00
	F-RIP	X-1P	1	1	1	0	0	0	0	0	0	100.00	100.00
	F-RSP	X-1P	1	1	1	0	0	0	0	0	0	100.00	100.00
F-TRB	F-HIT	X-3P	1	0	0	0	0	1	0	1	1	.00	100.00
	F-RIT	X-3P	1	0	0	0	0	1	0	1	1	.00	100.00

REPORT DATE: 07/24/92

CODE COMPLIANCE SUMMARY - UNIT 1 6TH REFUELING AND INSPECTION OUTAGE

(ASME SECTION XI APPENDIX B.1 ---- SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INT EXAMS	1ST PER SCH	1ST PER P/C REC	2ND PER SCH	2ND PER P/C REC	3RD PER SCH	5TH RFO P/C REC ACTUAL	6-RFO EXAMS SCHED	6-RFO P/C	% 1ST & 2ND PER OVER 1ST INT	% 1ST:2ND PER 5 & 6 RFO OVER 1ST INT
F-VSL	F-RHX	X-2P	2	0	0	2	2	0	0	0	0	100.00	100.00
	F-RPV	X-1C	10	0	0	6	6	4	3	1	1	60.00	100.00
	F-SSTK	X-2P	2	0	0	2	2	0	0	0	0	100.00	100.00
NCHOR	F-ANCH	X-1P	24	24	24	0	0	0	0	0	0	100.00	100.00
		X-2P	26	0	0	26	26	0	0	0	0	100.00	100.00
		X-3P	27	0	0	0	0	27	13	14	14	.00	100.00
RIGID	F-RIGD	X-1P	57	57	57	0	0	0	0	0	0	100.00	100.00
		X-2P	56	0	0	56	56	0	0	0	0	100.00	100.00
		X-3P	57	0	0	0	0	57	30	27	27	.00	100.00
SNUB	F-VT34	X-1P	120	120	120	0	0	0	0	0	0	100.00	100.00
		X-2P	112	0	0	112	112	0	0	0	0	100.00	100.00
		X-3P	116	0	0	0	0	116	56	56	56	.00	96.55
SPRNG	F-SPR	X-1P	112	112	112	0	0	0	0	0	0	100.00	100.00
		X-2P	110	0	0	110	110	0	0	0	0	100.00	100.00
		X-3P	111	0	0	0	0	111	59	52	52	.00	100.00
TOTAL			4786	1083	1087	1453	1453	1895	956	889	861	******	******

REPORT DATE: 07/24/92

ASME SECTION XI AND AUGMENTED EXAMINATIONS DETAILED LISTING

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG1 ITEM: AUG1

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DCA1092-FW-1 VOL	P-V	ISI-DCA-109-2	P-33	CS B	512018	04/12/92	Y	NRI
DLA1011-FW-3 VOL	FH-V	ISI-DLA-101-1	P-68	FW A	452001	04/16/92	Y	NRI
DLA1011-FW-7 VOL	E-P	ISI-DLA-101-1	P-68	FW A	452002	04/16/92	Y	O.D. GEOMETRY ACCPT
DLA1011-1-A VOL	P-E	ISI-DLA-101-1	P-68	FW A	452003	03/30/92	Y	O.D. GEOMETRY ACCPT
DLA1031-FW-5 VOL	P-V	ISI-DLA-103-1	P-68	FW B	452004	03/30/92	Y	NRI
DBA1021-FW-8 VOL	FH-V	ISI-DBA-102-1	P-27	HPCI	522001	04/05/92	Y	NRI
DBB1191-2A-F VOL	TEE SEAM	ISI-DBB-119-1	P-73	HPCI	522002	04/11/92	Y	NRI
SPDBA1151-FW-24 SUR	P-T	ISI-DBA-115-1		MS	832001	03/16/92	Y	NRI
SPDBA1151-FW-25 VOL	P-E	ISI-DBA-115-1	P-01	MS	832002	03/20/92	Y	ROOT GEOMETRY ACCPT
SPDBA1151-FW-26 VOL	P-P	ISI-DBA-115-1	P-01	MS	832003	03/20/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG1 ITEM: AUG1

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
SPDBA1151-FW-28 SUR	P-T	ISI-DBA-115-1		MS	832004	03/16/92	Y	NRI
SPDBA1151-FW-7 SUR	T-RED	ISI-DBA-115-1		MS	832005	03/16/92	Y	NRI
SPDBA1161-FW-38 VOL	E-P	ISI-DBA-116-1	P-01	MS	832006	04/18/92	Y	ROOT GEOMETRY ACCPT
SPDBA1161-FW-39 VOL	P-E	ISI-DBA-116-1	P-01	MS	832007	04/18/92	Y	ROOT GEOMETRY ACCPT
DBB1213-FW-5 VOL	P-E	ISI-DBB-121-3	P-18	RCIC	502001	03/16/92	Y	NRI
DBB1213-2-B VOL	E-P	ISI-DBB-121-3	P-18	RCIC	502002	03/16/92	Y	NRI

TALLY ITEM AUG1 16
TALLY CDECAT AUG1 16

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG2 ITEM: AUG2

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DBB1071-1-B VOL	E-P	ISI-DBB-107-1		RHR A	492001	03/26/92	Y	NRI
DCA1081-2-A VOL	E-P	ISI-DCA-108-1	P-56	RHR B	492002	04/15/92	Y	NRI
DCA1101-FW-1 VOL	P-V	ISI-DCA-110-1	P-64	RHR A	492003	03/26/92	Y	NRI
DCB1021-FW-1 VOL	P-V	ISI-DCB-102-1	P-13	RHR A	492004	03/26/92	Y	NRI
N1B NOZ-SE VOL	NOZ-SE	FF113010 SHT 6101	V-29	RPV-E B	622001	04/03/92	Y	ID GEOMETRY ACCPT
N2B NOZ-SE VOL	SE-NOZ	FF113010 SHT 1201	V-27	RPV-E B	622002	04/03/92	Y	ROOT GEOMETRY ACCPT
N2C NOZ-SE VOL	SE-NOZ	FF113010 SHT 1201	V-27	RPV-E B	622003	04/03/92	Y	ROOT GEOMETRY ACCPT
N2D NOZ-SE VOL	SE-NOZ	FF113010 SHT 1201	V-27	RPV-E B	622004	04/03/92	Y	ROOT GEOMETRY ACCPT
N2E NOZ-SE VOL	SE-NOZ	FF113010 SHT 1201	V-27	RPV-E B	622005	04/03/92	Y	ID GEOMETRY ACCPT
N2G NOZ-SE VOL	SE-NOZ	FF113010 SHT 1201	V-27	RPV-E A	622006	04/03/92	Y	ID GEOMETRY ACCPT

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG2 ITEM: AUG2

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
N2H NOZ-SE VOL	SE-NOZ	FF113010 SHT 1201	V-27	RPV-E A	622007	04/03/92	Y	ROOT GEOMETRY ACCPT
N2J NOZ-SE VOL	SE-NOZ	FF113010 SHT 3201	V-27	RPV-E A	622054	04/03/92	Y	ROOT GEOMETRY ACCPT
N5A NOZ-SE VOL	SE-NOZ	FF113010 SHT 3201	V-27	RPV-E B	622008	04/24/92	Y	ROOT GEOMETRY ACCPT
N5A SE-SEXT VOL	SE EXT-SE	FF113010 SHT 3201	V-15	RPV-E B	622009	04/18/92	Y	NRI
N5B NOZ-SE VOL	SE-NOZ	FF113010 SHT 3201	V-27	RPV-E A	622010	04/24/92	Y	ID GEOMETRY ACCPT
N5B SE-SEXT VOL	SE EXT-SE	FF113010 SHT 3201	V-15	RPV-E A	622011	04/18/92	Y	NRI
N8A NOZ-SE VOL	NOZ-SE	FF113012 SHT 0201	V-24	RPV-E B	622012	03/26/92	Y	NRI
N8A SE-PEN SEAL VOL	SE-PEN SEAL	FF113012 SHT 0201	V-13	RPV-E B	622013	03/26/92	Y	NRI
N8B NOZ-SE VOL	NOZ-SE	FF113012 SHT 0201	V-24	RPV-E A	622014	04/03/92	Y	NRI
N8B SE-PEN SEAL VOL	SE-PEN SEAL	FF113012 SHT 0201	V-13	RPV-E A	622015	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG2 ITEM: AUG2

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
VRRB311-FW-A14 VOL	SWOL-P	ISI-VRR-B31-1	P-92	RR A	642001	04/03/92	Y	I.D. GEOMETRY ACCPT
VRRB311-FW-A6 VOL	PU-P	ISI-VRR-B31-1	P-80	RR A	642002	03/30/92	Y	NRI
VRRB311-2-B VOL	P-WOL	ISI-VRR-B31-1	P-82	RR A	642003	05/06/92	Y	NRI
VRRB311-9-A VOL	P-E	ISI-VRR-B31-1	P-79	RR A	642004	04/01/92	Y	NRI
VRRB312-FW-B20 VOL	WOL-P	ISI-VRR-B31-2	P-05	RR B	642005	04/12/92	Y	NRI
VRRB312-FW-B3 VOL	E-V	ISI-VRR-B31-2	P-79	RR B	642016	05/06/92	Y	NRI
VRRB312-10-B VOL	P-WOL	ISI-VRR-B31-2	P-80	RR B	642006	05/06/92	Y	NRI
VRRB312-2-E VOL	P-E	ISI-VRR-B31-2	P-79	RR B	642007	04/12/92	Y	NRI
VRRB312-3-A VOL	P-WOL	ISI-VRR-B31-2	P-79	RR B	642008	05/06/92	Y	NRI
VRRB312-3-B VOL	P-WOL	ISI-VRR-B31-2	P-79	RR B	642049	05/06/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG2 ITEM: AUG2

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION
EXAM TYPE				LOOP	NCR NO			RESOLUTION
TALLY ITEM AUG2 30								
TALLY CDECAT AUG2 30								

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG3 ITEM: AUG3

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
N4A IR VOL	NOZ-IR	FF113012 SHT 0301	V-1	RPV-E B	622016	04/29/92	Y	NRI
N4A NOZ-SE VOL	SE-NOZ	FF113010 SHT 7701	V-22	RPV-E B	622017	04/21/92	Y	NRI
N4A-BORE VOL	FW NOZZLE BORE	FF113012 SHT 0301	V-1	RPV-E B	622018	04/24/92	Y	NRI
N4B IR VOL	NOZ-IR	FF113012 SHT 0301	V-1	RPV-E B	622019	04/29/92	Y	NRI
N4B NOZ-SE VOL	SE-NOZ	FF113010 SHT 7701	V-22	RPV-E B	622020	04/21/92	Y	NRI
N4B-BORE VOL	FW NOZZLE BORE	FF113012 SHT 0301	V-1	RPV-E B	622021	04/29/92	Y	NRI
N4C IR VOL	NOZ-IR	FF113012 SHT 0301	V-1	RPV-E B	622022	04/24/92	Y	NRI
N4C NOZ-SE VOL	SE-NOZ	FF113010 SHT 7701	V-22	RPV-E B	622023	04/21/92	Y	NRI
N4C-BORE VOL	FW NOZZLE BORE	FF113012 SHT 0301	V-1	RPV-E B	622024	04/24/92	Y	NRI
N4D IR VOL	NOZ-IR	FF113012 SHT 0301	V-1	RPV-E A	622025	04/29/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG3 ITEM: AUG3

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N4D NOZ-SE VOL	SE-NOZ	FF113010 SHT 7701	V-22	RPV-E A	622026	04/21/92	Y	NRI
N4D-BORE VOL	FW NOZZLE BORE	FF113012 SHT 0301	V-1	RPV-E A	622027	05/08/92	Y	NRI
N4E IR VOL	NOZ-IR	FF113012 SHT 0301	V-1	RPV-E A	622028	04/24/92	Y	NRI
N4E NOZ-SE VOL	SE-NOZ	FF113010 SHT 7701	V-22	RPV-E A	622029	04/21/92	Y	NRI
N4E-BORE VOL	FW NOZZLE BORE	FF113012 SHT 0301	V-1	RPV-E A	622030	04/24/92	Y	NRI
N4F IR VOL	NOZ-IR	FF113012 SHT 0301	V-1	RPV-E A	622031	04/24/92	Y	NRI
N4F NOZ-SE VOL	SE-NOZ	FF113010 SHT 7701	V-22	RPV-E A	622032	04/21/92	Y	NRI
N4F-BORE VOL	FW NOZZLE BORE	FF113012 SHT 0301	V-1	RPV-E A	622033	04/24/92	Y	NRI

TALLY ITEM AUG3 18
TALLY CDECAT AUG3 18

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG5 ITEM: AUG5

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
JT PMP HLD DN BM 01 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622092	04/03/92	Y	NRI
JT PMP HLD DN BM 01 VOL	HOLD DWN BM/BLT	ISI-C-199587		RPV-I B	622299	04/18/92	N	NRI
JT PMP HLD DN BM 02 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622093	04/03/92	Y	NRI
JT PMP HLD DN BM 02 VOL	HOLD DWN BM/BLT	ISI-C-199587		RPV-I B	622300	04/18/92	N	NRI
JT PMP HLD DN BM 03 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622094	04/03/92	Y	NRI
JT PMP HLD DN BM 04 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622095	04/03/92	Y	NRI
JT PMP HLD DN BM 05 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622096	04/03/92	Y	NRI
JT PMP HLD DN BM 06 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622097	04/03/92	Y	NRI
JT PMP HLD DN BM 07 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622098	04/03/92	Y	NRI
JT PMP HLD DN BM 08 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622099	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG5 ITEM: AUG5

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
JT PMP HLD DN BM 09 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622100	04/03/92	Y	NRI
JT PMP HLD DN BM 10 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I B	622101	04/03/92	Y	NRI
JT PMP HLD DN BM 10 VOL	HOLD DWN BM/BLT	ISI-C-199587		RPV-I B	622301	04/18/92	N	NRI
JT PMP HLD DN BM 11 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622102	04/03/92	Y	NRI
JT PMP HLD DN BM 11 VOL	HOLD DWN BM/BLT	ISI-C-199587		RPV-I A	622302	04/18/92	N	NRI
JT PMP HLD DN BM 12 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622103	04/03/92	Y	NRI
JT PMP HLD DN BM 12 VOL	HOLD DWN BM/BLT	ISI-C-199587		RPV-I A	622303	04/18/92	N	NRI
JT PMP HLD DN BM 13 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622104	04/03/92	Y	NRI
JT PMP HLD DN BM 14 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622105	04/03/92	Y	NRI
JT PMP HLD DN BM 15 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622106	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG5 ITEM: AUG5

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
JT PMP HLD DN BM 16 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622107	04/03/92	Y	NRI
JT PMP HLD DN BM 17 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622108	04/03/92	Y	NRI
JT PMP HLD DN BM 18 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622109	04/03/92	Y	NRI
JT PMP HLD DN BM 19 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622110	04/03/92	Y	NRI
JT PMP HLD DN BM 20 VOL	HOLD DWN BM/BLT	ISI-C-199587	GE	RPV-I A	622111	04/03/92	Y	NRI
JT PMP HLD DN BM 20 VOL	HOLD DWN BM/BLT	ISI-C-199587		RPV-I A	622304	04/20/92	N	NRI

TALLY ITEM AUG5 26
TALLY CDECAT AUG5 26

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DRYER SUPT RING HOR VT-3	HORIZONTAL FACE	D-205977	N/A	RPV-I N	622112 85-0113	03/26/92	Y	VARIOUS ACCPT
DRYER SUPT RING VER VT-3	VERTICAL FACE	D-205977	N/A	RPV-I N	622113 85-0113	03/26/92	Y	VARIOUS ACCPT
DRYER WELD DC-A-1 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622114 89-0145	03/26/92	Y	INSTALL DAMAGE ACCPT
DRYER WELD DC-A-2 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622115 89-0145	03/26/92	Y	INSTALL DAMAGE ACCPT
DRYER WELD DC-A-3 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622116 89-0145	03/26/92	Y	INSTALL DAMAGE ACCPT
DRYER WELD DC-B-1 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622117	03/26/92	Y	NRI
DRYER WELD DC-B-2 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622118	03/26/92	Y	NRI
DRYER WELD DC-B-3 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622119	03/26/92	Y	NRI
DRYER WELD DC-C-1 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622120	03/26/92	Y	NRI
DRYER WELD DC-C-2 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622121	03/26/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DRYER WELD DC-C-3 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622122 89-0137	03/26/92	Y	CRACK ACCPT
DRYER WELD DC-D-1 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622123	03/26/92	Y	WELD MISSING ACCPT/PER EVAL
DRYER WELD DC-D-2 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622124	03/26/92	Y	NRI
DRYER WELD DC-D-3 VT-3	DRAIN CHAN WELD	D-205977	N/A	RPV-I N	622125	03/26/92	Y	NRI
DRYER WELD HE-A-1 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622126	03/26/92	Y	NRI
DRYER WELD HE-A-2 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622127	03/26/92	Y	NRI
DRYER WELD HE-B-1 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622128	03/26/92	Y	NRI
DRYER WELD HE-B-2 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622129	03/26/92	Y	NRI
DRYER WELD HE-C-1 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622130 90-0251	03/26/92	Y	CRACK ACCPT
DRYER WELD HE-C-2 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622131	03/26/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DRYER WELD HE-D-1 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622132	03/26/92	Y	NRI
DRYER WELD HE-D-2 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622133	03/26/92	Y	NRI
DRYER WELD HE-E-1 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622134	03/26/92	Y	NRI
DRYER WELD HE-E-2 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622135	03/26/92	Y	NRI
DRYER WELD HE-F-1 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I N	622136	03/26/92	Y	NRI
DRYER WELD HE-F-2 VT-3	HOOD/END PANEL	D-205977	N/A	RPV-I	622137	03/26/92	Y	NRI
DRYER WELD TR-A-1/2 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622138	03/26/92	Y	NRI
DRYER WELD TR-A-3/4 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622139 90-0242	03/26/92	Y	CRACK ACCPT
DRYER WELD TR-A-5/6 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622140	03/26/92	Y	NRI
DRYER WELD TR-A-7/8 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622141 89-0151	03/26/92	Y	CRACK ACCPT

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DRYER WELD TR-B-1/2 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622142	03/26/92	Y	NRI
DRYER WELD TR-B-3/4 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622143	03/26/92	Y	NRI
DRYER WELD TR-B-5/6 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622144	03/26/92	Y	NRI
DRYER WELD TR-B-7/8 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622145	03/26/92	Y	NRI
DRYER WELD TR-C-1/2 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622146	03/26/92	Y	NRI
DRYER WELD TR-C-3/4 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622147	03/26/92	Y	NRI
DRYER WELD TR-C-5/6 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622148	03/26/92	Y	NRI
DRYER WELD TR-C-7/8 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622149	03/26/92	Y	NRI
DRYER WELD TR-D-1/2 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622150	03/26/92	Y	NRI
DRYER WELD TR-D-3/4 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622151	03/26/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DRYER WELD TR-D-5/6 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622152	03/26/92	Y	NRI
DRYER WELD TR-D-7/8 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622153	03/26/92	Y	NRI
DRYER WELD TR-E-1/2 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622154	03/26/92	Y	NRI
DRYER WELD TR-E-3/4 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622155	03/26/92	Y	NRI
DRYER WELD TR-E-5/6 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622156	03/26/92	Y	NRI
DRYER WELD TR-E-7/8 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622157	03/26/92	Y	NRI
DRYER WELD TR-F-1/2 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622158	03/26/92	Y	NRI
DRYER WELD TR-F-3/4 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622159 90-0242	03/26/92	Y	CRACK ACCEPTABLE
DRYER WELD TR-F-5/6 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622160	03/26/92	Y	NRI
DRYER WELD TR-F-7/8 VT-1	CAPTURE PLATE	D-205977	N/A	RPV-I N	622161	03/26/92	Y	CRACK ACCEPTABLE

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
JT PMP HLD DN BM 01 VT-3	HOLD DWN BM/BLT	ISI-C-199587		RPV-I B	622273	N/A	N	NRI/PSI
JT PMP HLD DN BM 02 VT-3	HOLD DWN BM/BLT	ISI-C-199587		RPV-I B	622274	N/A	N	NRI/PSI
JT PMP HLD DN BM 10 VT-3	HOLD DWN BM/BLT	ISI-C-199587		RPV-I B	622275	N/A	N	NRI/PSI
JT PMP HLD DN BM 11 VT-3	HOLD DWN BM/BLT	ISI-C-199587		RPV-I A	622276	N/A	N	NRI/PSI
JT PMP HLD DN BM 12 VT-3	HOLD DWN BM/BLT	ISI-C-199587		RPV-I A	622277	N/A	N	NRI/PSI
JT PMP HLD DN BM 20 VT-3	HOLD DWN BM/BLT	ISI-C-199587		RPV-I A	622278	N/A	N	NRI/PSI
JT PMP 01 INST LINE VT-3	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3		RPV-I	622289	N/A	N	NRI/PSI
JT PMP 02 INST LINE VT-3	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3		RPV-I	622290	N/A	N	NRI/PSI
JT PMP 10 INST LINE VT-3	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3		RPV-I	622291	N/A	N	NRI/PSI
JT PMP 11 INST LINE VT-3	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3		RPV-I	622292	N/A	N	NRI/PSI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
JT PMP 12 INST LINE VT-3	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3		RPV-I	622293	N/A	N	NRI/PSI
JT PMP 20 INST LINE VT-3	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3		RPV-I	622294	N/A	N	NRI/PSI
N2A JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4		RPV-I	622279	N/A	N	NRI/PSI
N2A JT PMP 01 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4		RPV-I	622283	N/A	N	NRI/PSI
N2A JT PMP 02 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4		RPV-I	622284	N/A	N	NRI/PSI
N2E JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4		RPV-I	622280	N/A	N	NRI/PSI
N2E JT PMP 10 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4		RPV-I	622285	N/A	N	NRI/PSI
N2F JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4		RPV-I	622281	N/A	N	NRI/PSI
N2F JT PMP 11 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4		RPV-I	622286	N/A	N	NRI/PSI
N2F JT PMP 12 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4		RPV-I	622287	N/A	N	NRI/PSI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG6 ITEM: AUG6

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N2K JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4		RPV-I	622282	N/A	N	NRI/PSI
N2K JT PMP 20 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4		RPV-I	622288	N/A	N	NRI/PSI
SBLC STANDPIPE VT-3	LOWER PLENUM	ISI-C-199587		RPV-I	622258	04/03/92	Y	NRI
SHROUD ACCESS COVER VT-1	O ACSS HOLE CVR	C-199587 SHT 3	N/A	RPV-I N	622162	04/16/92	Y	NRI

TALLY ITEM AUG6 74
TALLY CDECAT AUG6 74

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DRYER RING CRACK A VOL	45'+4.00" HOR	D-205977	GE	RPV-I N	622163 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK B VOL	45'-20.00" HOR	D-205977	GE	RPV-I N	622164 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK C VOL	45'-18.75" HOR	D-205977	GE	RPV-I N	622165 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK D VOL	45'-16.25" HOR	D-205977	GE	RPV-I N	622166 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK E VOL	170'+18.50" HOR	D-205977	GE	RPV-I N	622167 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK F VOL	170'+15.50" HOR	D-205977	GE	RPV-I N	622168 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK G VOL	225'-45.00" VER	D-205977	GE	RPV-I N	622169 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK H VOL	225'-34.00" VER	D-205977	GE	RPV-I N	622170 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK I VOL	225'-25.50" VER	D-205977	GE	RPV-I N	622171 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK J VOL	225'-20.00"_VER	D-205977	GE	RPV-I N	622172 92-070	03/30/92	Y	CRACK UAI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DRYER RING CRACK K VOL	225'-7.00" VER	D-205977	GE	RPV-I N	622173 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK L VOL	225'+6.25" VER	D-205977	GE	RPV-I N	622174 92-070	03/30/92	Y	CRACK UAI
DRYER RING CRACK M VOL	225'+7.75" VER	D-205977	GE	RPV-I N	622175 92-070	03/30/92	Y	CRACK UAI
SHROUD HEAD BOLT 01 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622176	03/20/92	Y	NRI
SHROUD HEAD BOLT 02 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622177	03/20/92	Y	NRI
SHROUD HEAD BOLT 03 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622178	03/20/92	Y	NRI
SHROUD HEAD BOLT 04 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622179	03/20/92	Y	NRI
SHROUD HEAD BOLT 05 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622180	03/20/92	Y	NRI
SHROUD HEAD BOLT 06 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622181	03/20/92	Y	NRI
SHROUD HEAD BOLT 07 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622182	03/20/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SHROUD HEAD BOLT 08 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622183	03/20/92	Y	NRI
SHROUD HEAD BOLT 09 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622184	03/20/92	Y	NRI
SHROUD HEAD BOLT 10 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622185	03/20/92	Y	NRI
SHROUD HEAD BOLT 11 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622186	03/20/92	Y	NRI
SHROUD HEAD BOLT 12 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622187	03/20/92	Y	NRI
SHROUD HEAD BOLT 13 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622188	03/20/92	Y	NRI
SHROUD HEAD BOLT 14 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622189	03/20/92	Y	NRI
SHROUD HEAD BOLT 15 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622190	03/20/92	Y	NRI
SHROUD HEAD BOLT 16 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622191	03/20/92	Y	NRI
SHROUD HEAD BOLT 17 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622192	03/20/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
SHROUD HEAD BOLT 18 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622193	03/20/92	Y	NRI
SHROUD HEAD BOLT 19 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622194	03/20/92	Y	NRI
SHROUD HEAD BOLT 20 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622195	03/20/92	Y	NRI
SHROUD HEAD BOLT 21 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622196	03/20/92	Y	NRI
SHROUD HEAD BOLT 22 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622197	03/20/92	Y	NRI
SHROUD HEAD BOLT 23 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622198	03/20/92	Y	NRI
SHROUD HEAD BOLT 24 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622199	03/20/92	Y	NRI
SHROUD HEAD BOLT 25 VOL	HOLDDWN BOLT	C-213560 SHT1	GE	RPV-I N	622200	03/20/92	Y	NRI
SHROUD HEAD BOLT 26 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622201	03/20/92	Y	NRI
SHROUD HEAD BOLT 27 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622202	03/20/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SHROUD HEAD BOLT 28 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622203	03/20/92	Y	NRI
SHROUD HEAD BOLT 29 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622204	03/20/92	Y	NRI
SHROUD HEAD BOLT 30 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622205	03/20/92	Y	NRI
SHROUD HEAD BOLT 31 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622206	03/20/92	Y	NRI
SHROUD HEAD BOLT 32 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622207	03/20/92	Y	NRI
SHROUD HEAD BOLT 33 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622208	03/20/92	Y	NRI
SHROUD HEAD BOLT 34 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622209	03/20/92	Y	NRI
SHROUD HEAD BOLT 35 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622210	03/20/92	Y	NRI
SHROUD HEAD BOLT 36 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622211	03/20/92	Y	NRI
SHROUD HEAD BOLT 37 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622212	03/20/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS.- SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SHROUD HEAD BOLT 38 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622213	03/20/92	Y	NRI
SHROUD HEAD BOLT 39 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622214	03/20/92	Y	NRI
SHROUD HEAD BOLT 40 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622215	03/20/92	Y	NRI
SHROUD HEAD BOLT 41 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622216	03/20/92	Y	NRI
SHROUD HEAD BOLT 42 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622217	03/20/92	Y	NRI
SHROUD HEAD BOLT 43 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622218	03/20/92	Y	NRI
SHROUD HEAD BOLT 44 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622219	03/20/92	Y	NRI
SHROUD HEAD BOLT 45 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622220	03/20/92	Y	NRI
SHROUD HEAD BOLT 46 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622221	03/20/92	Y	NRI
SHROUD HEAD BOLT 47 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622222	03/20/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: AUG7 ITEM: AUG7

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SHROUD HEAD BOLT 48 VOL	HOLDDWN BOLT	C-213560 SHT 1	GE	RPV-I N	622223	03/20/92	Y	NRI

TALLY ITEM AUG7 61
TALLY CDECAT AUG7 61

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-A ITEM: B1.11

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
AD-BOT VOL	SC3-SC4	ISI-C-198607	V-1	RPV-E	622034	05/08/92	Y	NRI
AD-TOP VOL	SC3-SC4	ISI-C-198607	V-1	RPV-E	622035	05/08/92	Y	30 SPOT INDICA ACCPT
AE-BOT VOL	SC4-SC5	ISI-C-198607	V-1	RPV-E	622036	05/08/92	Y	7 SPOT INDICA ACCPT
AE-TOP VOL	SC4-SC5	ISI-C-198607	V-1	RPV-E	622037	05/08/92	Y	NRI

TALLY ITEM B1.11 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-A ITEM: B1.12

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
BF VOL	SC2 LONG	ISI-C-198607	V-1	RPV-E	622038	05/01/92	Y	NRI
BG VOL	SC3 LONG	ISI-C-198607	V-1	RPV-E N	622039	04/18/92	Y	35 SPOT INDICA ACCPT
BH VOL	SC3 LONG	ISI-C-198607	V-1	RPV-E N	622040	04/18/92	Y	3 SPOT INDICA ACCPT
BJ VOL	SC3 LONG	ISI-C-198607	V-1	RPV-E N	622041	05/08/92	Y	5 SPOT INDICA ACCPT
BK VOL	SC4 LONG	ISI-C-198607	V-1	RPV-E N	622042	04/24/92	Y	NRI
BM VOL	SC4 LONG	ISI-C-198607	V-1	RPV-E N	622043	04/24/92	Y	2 SPOT INDICA ACCPT
BN VOL	SC5 LONG	ISI-C-198607	V-1	RPV-E N	622044	04/24/92	Y	NRI
BP VOL	SC5 LONG	ISI-C-198607	V-1	RPV-E N	622045	04/24/92	Y	NRI

TALLY ITEM B1.12 8
TALLY CDECAT B-A 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-D ITEM: B3.100

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N2J IR VOL	NOZ-IR	FF113010 SHT 9802	V-1	RPV-E A	622046	05/08/92	Y	NRI
N2K IR VOL	NOZ-IR	FF113010 SHT 9802	V-1	RPV-E A	622047	05/08/92	Y	NRI
N3A IR VOL	NOZ-IR	FF113010 SHT 6202	V-1	RPV-E	622048	04/18/92	Y	NRI
N3B IR VOL	NOZ-IR	FF113010 SHT 6202	V-1	RPV-E	622049	04/18/92	Y	NRI
N3C IR VOL	NOZ-IR	FF113010 SHT 6202	V-1	RPV-E	622050	04/18/92	Y	NRI
N3D IR VOL	NOZ-IR	FF113010 SHT 6202	V-1	RPV-E	622051	04/18/92	Y	NRI
N6A IR VOL	NOZ-IR	FF113010 SHT 5603	V-1	RPV-E	622052	04/18/92	Y	NRI
N7 IR VOL	NOZ-IR	FF113012 SHT 1301	V-1	RPV-E	622053	04/18/92	Y	NRI

TALLY ITEM B3.100 8

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-D ITEM: B3.90

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N2J VOL	NOZ-SC1	FF113010 SHT 9802	V-1	RPV-E A	622055	05/01/92	Y	2 SPOT INDICA ACCPT
N2K VOL	NOZ-SC1	FF113010 SHT 9802	V-1	RPV-E A	622056	05/08/92	Y	3 SPOT INDICA ACCPT
N8A VOL	NOZ-SC1	FF113010 SHT 6402	V-1	RPV-E B	622057	04/18/92	Y	NRI
N8B VOL	NOZ-SC1	FF113010 SHT 6402	V-1	RPV-E A	622058	04/02/92	Y	NRI

TALLY ITEM B3.90 4
TALLY CDECAT B-D 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-E ITEM: B4.12

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
CRD-50-47 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622059	04/30/92	Y	NRI
CRD-50-51 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622060	04/30/92	Y	NRI
CRD-54-43 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622061	04/30/92	Y	NRI
CRD-54-47 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622062	04/30/92	Y	NRI
CRD-58-27 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622063	04/30/92	Y	NRI
CRD-58-31 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622064	04/30/92	Y	NRI
CRD-58-35 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622065	04/30/92	Y	NRI
CRD-58-39 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622066	04/30/92	Y	NRI
CRD-58-43 VT-2	CRD PEN	ISI-C-198608	N/A	RPV-E N	622067	04/30/92	Y	NRI

TALLY ITEM B4.12 9

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-E ITEM: B4.13

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
INCORE-48-49 VT-2	INCORE PEN	ISI-C-198608	N/A	RPV-E N	622068	04/30/92	Y	NRI
INCORE-56-41 VT-2	INCORE PEN	ISI-C-198608	N/A	RPV-E N	622069	04/30/92	Y	NRI
N16B VT-2	INST NOZ	ISI-C-198608	N/A	RPV-E N	622070	04/30/92	Y	NRI

TALLY ITEM B4.13 3
TALLY CDECAT B-E 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-F ITEM: B5.10

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N8A NOZ-SE VOL	NOZ-SE	FF113012 SHT 0201		RPV-E B	622071	03/26/92	Y	NRI
N8A NOZ-SE SUR	NOZ-SE	FF113012 SHT 0201	N/A	RPV-E B	622072	03/30/92	Y	NRI
N8B NOZ-SE VOL	NOZ-SE	FF113012 SHT 0201		RPV-E A	622073	04/03/92	Y	NRI
N8B NOZ-SE SUR	NOZ-SE	FF113012 SHT 0201	N/A	RPV-E A	622074	03/30/92	Y	NRI

TALLY ITEM B5.10 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-F ITEM: B5.50

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DCA1112-FW-18 SUR	E-FL	ISI-DCA-111-2		RHR A	492005	04/02/92	Y	NRI
DCA1112-FW-18 VOL	E-FL	ISI-DCA-111-2	P-13	RHR A	492006	04/03/92	Y	NRI
DCA1031-FW-60 SUR	P-T	ISI-DCA-103-1		RWCU	612004	04/12/92	Y	NRI
DCA1031-FW-60 VOL	P-T	ISI-DCA-103-1		RWCU	612005	04/28/92	Y	NRI

TALLY ITEM B5.50 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-F ITEM: B5.51

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DCA1031-FW-57 SUR	P-P	ISI-DCA-103-1		RWCU	612006	05/06/92	Y	NRI

TALLY ITEM B5.51 1
TALLY CDECAT B-F 9

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RPV-NUT-01 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-02 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-03 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-04 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-05 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-06 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-07 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-08 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-09 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-10 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RPV-NUT-11 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-12 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-13 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-14 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-15 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-16 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-17 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-18 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-19 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-20 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RPV-NUT-21 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-22 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-23 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-24 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-25 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-26 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-27 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-28 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-29 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-30 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
RPV-NUT-31 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-32 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-33 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-34 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-35 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-36 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-37 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-38 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-39 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-40 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
RPV-NUT-41 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-42 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-43 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-44 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-45 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-46 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-47 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-48 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-49 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-50 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RPV-NUT-51 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-52 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-53 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-54 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-55 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-56 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-57 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-58 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-59 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-60 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RPV-NUT-61 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-62 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-63 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-64 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-65 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-66 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-67 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-68 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-69 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-70 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RPV-NUT-71 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-72 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-73 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-74 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-75 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI
RPV-NUT-76 SUR	RPV NUT	FF113010 SHT 8601	N/A	RPV-E N	622075	04/23/92	Y	NRI

TALLY ITEM B6.10 76
TALLY CDECAT B-G-1 76

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
VNBB212-17-N-B VT-1	FLANGE BOLTING	ISI-VNB-B21-2		MS	832008	03/30/92	Y	NRI
VNBB212-17-S-B VT-1	FLANGE BOLTING	ISI-VNB-B21-2		MS	832009	03/30/92	Y	NRI
VNBB212-17-T-B VT-1	FLANGE BOLTING	ISI-VNB-B21-2		MS	832010	03/25/92	Y	NRI
VNBB212-18-E-B VT-1	FLANGE BOLTING	ISI-VNB-B21-2		MS	832011	03/30/92	Y	NRI
VNBB212-18-K-B VT-1	FLANGE BOLTING	ISI-VNB-B21-2		MS	832012	03/30/92	Y	NRI
DCA1112-FW16-BG VT-1	FLANGE BOLTING	ISI-DCA-111-2		RHR A	492007	04/02/92	Y	NRI
RPV-N6A-BG2 VT-1	SPARE FLG BLTS	FF113010 SHT 5603	N/A	RPV-E N	622076	04/24/92	Y	NRI
RPV-N6B-BG2 VT-1	HEAD SPRAY BLTS	FF113010 SHT 5603	N/A	RPV-E N	622077	05/20/92	Y	NRI
RPV-N7-BG2 VT-1	HEAD VENT BOLTS	FF113012 SHT 1301	N/A	RPV-E N	622078	05/20/92	Y	NRI
:								
DCA1421-FL-1 VT-1	FLANGE BOLTING	ISI-DCA-142-1		RR A	642009	04/05/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
VRRB311-14-G-B VT-1	FLANGE BOLTING	ISI-VRR-B31-1		RR A	642010	03/30/92	Y	NRI
VRRB312-3-G-B VT-1	FLANGE BOLTING	ISI-VRR-B31-2		RR B	642011	04/03/92	Y	NRI

TALLY ITEM B7.50 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1F010A-BG2 VT-1	VALVE BOLTING	ISI-DLA-101-1		FW A	452005	04/03/92	Y	NRI
1F010B-BG2 VT-1	VALVE BOLTING	ISI-DLA-103-1		FW B	452006	03/30/92	Y	NRI
PSV1F013C-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-2		MS	832013	03/22/92	Y	NRI
PSV1F013M-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-2		MS	832014	03/20/92	Y	NRI
PSV1F013P-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-2		MS	832015	03/26/92	Y	NRI
PSV1F013S-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-2		MS	832016	03/20/92	Y	NRI
HV1F023B-BG2 VT-1	VALVE BOLTING	ISI-VRR-B31-2		RR B	642012	04/03/92	Y	NRI

TALLY ITEM B7.70 7

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
CRD-02-19-BLT VT-1	CRD HOUSING BLT			RPV-E	622500	04/22/92	Y	NRI
CRD-02-23-BLT VT-1	CRD HOUSING BLT			RPV-E	622501	04/22/92	Y	NRI
CRD-06-15-BLT VT-1	CRD HOUSING BLT			RPV-E	622502 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-06-43-BLT VT-1	CRD HOUSING BLT			RPV-E	622503 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-10-11-BLT VT-1	CRD HOUSING BLT			RPV-E	622504	04/22/92	Y	NRI
CRD-10-19-BLT VT-1	CRD HOUSING BLT			RPV-E	622505	04/22/92	Y	NRI
CRD-10-47-BLT VT-1	CRD HOUSING BLT			RPV-E	622506 92-115	04/22/92	Y	MECH DAMAGE REPLACE
CRD-10-51-BLT VT-1	CRD HOUSING BLT			RPV-E	622507	04/22/92	Y	NRI
CRD-14-23-BLT VT-1	CRD HOUSING BLT			RPV-E	622508 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-18-19-BLT VT-1	CRD HOUSING BLT			RPV-E	622509 92-115	04/22/92	Y	LINEAR PITTING REPLACE

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
CRD-18-47-BLT VT-1	CRD HOUSING BLT			RPV-E	622510	04/22/92	Y	NRI
CRD-18-55-BLT VT-1	CRD HOUSING BLT			RPV-E	622511 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-22-27-BLT VT-1	CRD HOUSING BLT			RPV-E	622512	04/22/92	Y	NRI
CRD-22-35-BLT VT-1	CRD HOUSING BLT			RPV-E	622513	04/22/92	Y	NRI
CRD-30-23-BLT VT-1	CRD HOUSING BLT			RPV-E	622514 92-115	04/22/92	Y	MECH DAMAGE REPLACE
CRD-38-11-BLT VT-1	CRD HOUSING BLT			RPV-E	622515 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-42-03-BLT VT-1	CRD HOUSING BLT			RPV-E	622516 92-115	04/22/92	Y	MECH DAMAGE REPLACE
CRD-42-07-BLT VT-1	CRD HOUSING BLT			RPV-E	622517 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-42-55-BLT VT-1	CRD HOUSING BLT			RPV-E	622518	04/22/92	Y	NRI
CRD-46-11-BLT VT-1	CRD HOUSING BLT			RPV-E	622519	04/22/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
CRD-46-35-BLT VT-1	CRD HOUSING BLT			RPV-E	622520	04/22/92	Y	NRI
CRD-50-11-BLT VT-1	CRD HOUSING BLT			RPV-E	622521 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-54-15-BLT VT-1	CRD HOUSING BLT			RPV-E	622522 92-115	04/22/92	Y	LINEAR PITTING REPLACE
CRD-54-23-BLT VT-1	CRD HOUSING BLT			RPV-E	622523	04/22/92	Y	NRI

TALLY ITEM B7.80 24
TALLY CDECAT B-G-2 43

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-H ITEM: B8.10

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
CG SUR	RPV-SUP SKIRT	ISI-C-199555	N/A	RPV-E N	622079	04/24/92	Y	NRI
SB-E VT-1	STAB BRACK	ISI-C-205754	N/A	RPV-E N	622080	05/08/92	Y	NRI

TALLY ITEM B8.10 2
TALLY CDECAT B-H 2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.11

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DCA1091-1-D SUR	E-P	ISI-DCA-109-1		CS A	512001	03/26/92	Y	NRI
DCA1091-1-D VOL	E-P	ISI-DCA-109-1	P-33	CS A	512002	03/26/92	Y	NRI
DLA1021-5-E VOL	P-E	ISI-DLA-102-1	P-31	FW A	452007	04/18/92	Y	O.D. GEOMETRY ACCPT
DLA1021-5-E SUR	P-E	ISI-DLA-102-1		FW A	452008	04/16/92	Y	NRI
DLA1043-FW-1 VOL	P-SE	ISI-DLA-104-3	P-31	FW B	452009	04/16/92	Y	ROOT GEOMETRY ACCPT
DLA1043-FW-1 SUR	P-SE	ISI-DLA-104-3		FW B	452010	04/05/92	Y	NRI
DLA1043-FW-2 VOL	T-P	ISI-DLA-104-3	P-31	FW B	452011	04/18/92	Y	NRI
DLA1043-FW-2 SUR	T-P	ISI-DLA-104-3		FW B	452012	03/28/92	Y	NRI
DLA1043-FW-3 VOL	P-E	ISI-DLA-104-3	P-31	FW B	452013	04/18/92	Y	O.D. GEOMETRY ACCPT
DLA1043-FW-3 SUR	P-E	ISI-DLA-104-3		FW B	452014	04/16/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.11

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DLA1044-FW-1 VOL	P-SE	ISI-DLA-104-4	P-31	FW B	452015	04/16/92	Y	ROOT GEOMETRY ACCPT
DLA1044-FW-1 SUR	P-SE	ISI-DLA-104-4		FW B	452016	04/05/92	Y	NRI
VNBB211-19-E SUR	P-FL	ISI-VNB-B21-1		MS	832017 92-119	05/20/92	Y	LINEAR REPAIR
VNBB211-19-E VOL	P-FL	ISI-VNB-B21-1	P-21	MS	832018	04/28/92	Y	NRI
VNBB212-FW-B3 SUR	P-E	ISI-VNB-B21-2		MS	832019	04/16/92	Y	NRI
VNBB212-FW-B3 VOL	P-E	ISI-VNB-B21-2	P-77	MS	832020	04/16/92	Y	NRI
VNBB212-17-M SUR	SWOL-P	ISI-VNB-B21-2		MS	832021	03/20/92	Y	NRI
VNBB212-17-M VOL	SWOL-P	ISI-VNB-B21-2	P-21	MS	832022	04/16/92	Y	NRI
VNBB212-17-R SUR	SWOL-P	ISI-VNB-B21-2		MS	832023 92-050	05/06/92	Y	LINEAR REPAIR
VNBB212-17-R VOL	SWOL-P	ISI-VNB-B21-2	P-21	MS	832024	04/16/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.11

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
VNBB212-17-T SUR	P-FL	ISI-VNB-B21-2		MS	832025	04/05/92	Y	NRI
VNBB212-17-T VOL	P-FL	ISI-VNB-B21-2	P-21	MS	832026	04/11/92	Y	NRI
VNBB212-18-B SUR	P-E	ISI-VNB-B21-2		MS	832027	03/20/92	Y	NRI
VNBB212-18-B VOL	P-E	ISI-VNB-B21-2	P-75	MS	832028	04/16/92	Y	GEOMETRY ACCPT
VNBB212-18-D SUR	SWOL-P	ISI-VNB-B21-2		MS	832029	03/26/92	Y	NRI
VNBB212-18-D VOL	SWOL-P	ISI-VNB-B21-2	P-21	MS	832030	04/11/92	Y	NRI
DCA1112-FW-5 SUR	P-V	ISI-DCA-111-2		RHR A	492008	04/02/92	Y	NRI
DCA1112-FW-5 VOL	P-V	ISI-DCA-111-2	P-13	RHR A	492009	04/03/92	Y	NRI
DCA1112-3-A SUR	P-FL	ISI-DCA-111-2		RHR A	492010	04/30/92	Y	NRI
DCA1112-3-A VOL	P-FL	ISI-DCA-111-2	P-13	RHR A	492011	04/30/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.11

CID : / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N8A PEN SEAL A WELD VOL	ASSEMBLY WELD	FF113013 SHT 601	P-13	RPV-E B	622081	03/26/92	Y	NRI
N8B PEN SEAL A WELD VOL	ASSEMBLY WELD	FF113013 SHT 601	P-13	RPV-E A	622082	04/03/92	Y	NRI
VRRB311-FW-A14M SUR	P-P	ISI-VRR-B31-1		RR A	642013	03/30/92	Y	NRI
VRRB311-FW-A14M VOL	P-P	ISI-VRR-B31-1	P-92	RR A	642011	04/03/92	Y	I. D. GEOMETRY ACCPT
VRRB312-FW-B3 SUR	E-V	ISI-VRR-B31-2		RR B	642015	04/03/92	Y	NRI
VRRB312-FW-B3 VOL	E-V	ISI-VRR-B31-2	P-81	RR B	642016	05/06/92	Y	NRI
VRRB312-5-A SUR	E-P	ISI-VRR-B31-2		RR B	642017	04/01/92	Y	NRI
VRRB312-5-A VOL	E-P	ISI-VRR-B31-2	P-33	RR B	642018	04/21/92	Y	ROOT GEOMETRY ACCPT
VRRB312-6-A SUR	E-P	ISI-VRR-B31-2		RR B	642019	04/01/92	Y	NRI
VRRB312-6-A VOL	E-P	ISI-VRR-B31-2	P-33	RR B	642020	04/21/92	Y	ROOT GEOMETRY ACCPT

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.11

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
VRRB312-6-B SUR	P-E	ISI-VRR-B31-2		RR B	642021	04/01/92	Y	NRI
VRRB312-6-B VOL	P-E	ISI-VRR-B31-2	P-33	RR B	642022	04/21/92	Y	ROOT GEOMETRY ACCPT
DCA1031-FW-10 SUR	E-E	ISI-DCA-103-1		RWCU	612008	04/02/92	Y	NRI
DCA1031-FW-10 VOL	E-E	ISI-DCA-103-1	P-05	RWCU	612009	04/02/92	Y	NRI
DCA1031-FW-41 SUR	P-T	ISI-DCA-103-1		RWCU	612021	04/05/92	Y	NRI
DCA1031-FW-41 VOL	P-T	ISI-DCA-103-1	P-05	RWCU	612020	04/11/92	Y	NRI
DCA1031-FW-48 SUR	E-P	ISI-DCA-103-1		RWCU	612010	04/03/92	Y	NRI
DCA1031-FW-48 VOL	E-P	ISI-DCA-103-1	P-05	RWCU	612011	04/03/92	Y	NRI
DCA1031-FW-49 SUR	P-E	ISI-DCA-103-1		RWCU	612012	04/03/92	Y	NRI
DCA1031-FW-49 VOL	P-E	ISI-DCA-103-1	P-05	RWCU	612013	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.11

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DCA1031-FW-50 SUR	P-P	ISI-DCA-103-1		RWCU	612014	04/03/92	Y	NRI
DCA1031-FW-50 VOL	P-P	ISI-DCA-103-1	P-05	RWCU	612015	04/03/92	Y	NRI

TALLY ITEM B9.11 52

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.12

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DCA1112-3-B VOL	PIPE SEAM	ISI-DCA-111-2	P-13	RHR A	492012	04/30/92	Y	ROOT GEOMETRY ACCPT
DCA1112-3-B SUR	PIPE SEAM	ISI-DCA-111-2		RHR A	492013	04/30/92	Y	NRI
DCA1112-4-F SUR	PIPE SEAM	ISI-DCA-111-2		RHR A	492014	04/03/92	Y	NRI
DCB1021-2-D VOL	PIPE SEAM	ISI-DCB-102-1	P-13	RHR A	492015	04/12/92	Y	NRI
DCA1421-1-D VOL	PIPE SEAM	ISI-DCA-142-1	P-05	RR B	642023	04/12/92	Y	NRI
DCA1421-1-D SUR	PIPE SEAM	ISI-DCA-142-1		RR B	642024	04/12/92	Y	NRI
VRRB311-2-U SUR	TEE SEAM	ISI-VRR-B31-1		RR A	642025	03/30/92	Y	NRI
VRRB311-2-U VOL	TEE SEAM	ISI-VRR-B31-1	P-82	RR A	642026	04/15/92	Y	NRI
VRRB311-2-V SUR	TEE SEAM	ISI-VRR-B31-1		RR A	642027	03/30/92	Y	NRI
VRRB311-2-V VOL	TEE SEAM	ISI-VRR-B31-1	P-82	RR A	642028 92-041	04/15/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.12

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
VRRB311-5-C VOL	ELBOW SEAM	ISI-VRR-B31-1	P-33	RR A	642029	04/01/92	Y	NRI
VRRB311-5-C SUR	ELBOW SEAM	ISI-VRR-B31-1		RR A	642030	03/30/92	Y	NRI
VRRB312-1-J SUR	ELBOW SEAM	ISI-VRR-B31-2		RR B	642031	04/01/92	Y	NRI
VRRB312-1-K SUR	PIPE SEAM	ISI-VRR-B31-2		RR B	642032	04/01/92	Y	NRI
VRRB312-1-K SUR	PIPE SEAM	ISI-VRR-B31-2		RR B	642032	04/01/92	Y	NRI
VRRB312-10-U SUR	TEE SEAM	ISI-VRR-B31-2		RR B	642033	03/30/92	Y	NRI
VRRB312-10-U VOL	TEE SEAM	ISI-VRR-B31-2	P-82	RR B	642034	04/15/92	Y	NRI
VRRB312-10-V SUR	TEE SEAM	ISI-VRR-B31-2		RR B	642035	03/30/92	Y	NRI
VRRB312-10-V VOL	TEE SEAM	ISI-VRR-B31-2	P-82	RR B	642036	04/15/92	Y	NRI
VRRB312-2-P SUR	ELBOW SEAM	ISI-VRR-B31-2		RR B	642037	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.12

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
VRRB312-2-P VOL	ELBOW SEAM	ISI-VRR-B31-2	P-81	RR B	642038	05/06/92	Y	NRI
VRRB312-2-Q SUR	ELBOW SEAM	ISI-VRR-B31-2		RR B	642039	04/03/92	Y	NRI
VRRB312-2-Q VOL	ELBOW SEAM	ISI-VRR-B31-2	P-81	RR B	642040	05/06/92	Y	NRI
VRRB312-5-C VOL	ELBOW SEAM	ISI-VRR-B31-2	P-33	RR B	642043	04/15/92	Y	NRI
VRRB312-5-C SUR	ELBOW SEAM	ISI-VRR-B31-2		RR B	642044	04/01/92	Y	NRI
VRRB312-6-C VOL	ELBOW SEAM	ISI-VRR-B31-2	P-33	RR B	642045	04/15/92	Y	NRI
VRRB312-6-C SUR	ELBOW SEAM	ISI-VRR-B31-2		RR B	642046	04/01/92	Y	NRI

TALLY ITEM B9.12 27

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
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OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.21

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
SPDCA1021-FW-11 SUR	P-V	ISI-SP-DCA-102-1		RR B	642047	04/03/92	Y	NRI
SPDCA1022-FW10 SUR	RED-P	ISI-SP-DCA-102-2		RR A	642048	03/30/92	Y	NRI
SPDCA1062-30 SUR	E-P	ISI-SP-DCA-106-2		SBLC	532001	04/02/92	Y	NRI

TALLY ITEM B9.21 3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.31

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
VNBB212-18-C SUR	P-SWOL	ISI-VNB-B21-2		MS	832031	03/30/92	Y	NRI
VNBB212-18-C VOL	P-SWOL	ISI-VNB-B21-2	P-75	MS	832032	04/16/92	Y	NRI
VRRB312-3-B VOL	P-WOL	ISI-VRR-B31-2	P-79	RR B	642049	05/06/92	Y	NRI
VRRB312-3-B SUR	P-WOL	ISI-VRR-B31-2		RR B	642050	04/05/92	Y	NRI
VRRB312-9-1-G SUR	P-SWOL	ISI-VRR-B31-2		RR	642051	04/11/92	Y	NRI
VRRB312-9-1-G VOL	P-SWOL	ISI-VRR-B31-2	P-58	RR	642052	04/12/92	Y	NRI

TALLY ITEM B9.31 6

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-J ITEM: B9.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SPDCA1062-FW-24 SUR	P-T	ISI-SP-DCA-106-2		SBLC	532002	04/03/92	Y	NRI
SPDCA1064-FW-8 SUR	P-COUP	ISI-SP-DCA-106-4		SBLC	532003	04/02/92	Y	NRI

TALLY ITEM B9.40 2
TALLY CDECAT B-J 90

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OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-K-1 ITEM: B10.10

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
MST0222-HW-2A SUR	P-LUG/H42	ISI-VNB-B21-1-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2B SUR	P-LUG/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2C SUR	P-LUG/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2D SUR	P-LUB/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2E SUR	P-LUG/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2F SUR	P-LUG/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2G SUR	P-LUG/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
MST0222-HW-2H SUR	P-LUG/H42	ISI-VNB-B21-2-H		MS	832033	04/15/92	Y	NRI
RWS1002-HW-2A SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
RWS1002-HW-2B SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-K-1 ITEM: B10.10

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
RWS1002-HW-2C SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
RWS1002-HW-2D SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
RWS1002-HW-2E SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
RWS1002-HW-2F SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
RWS1002-HW-2G SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
RWS1002-HW-2H SUR	P-LUG/H26	ISI-VRR-B31-2-H		RR B	642053	04/15/92	Y	NRI
1P401A-HW1 SUR	BRKT/HA6/H47	C-198638		RR A	642054	03/30/92	Y	NRI
1P401A-HW2 SUR	BRKT/H46	C-198638		RR A	642055	04/03/92	Y	NRI
1P401A-HW3 SUR	BRKT/HA5	C-198638		RR A	642056	03/30/92	Y	NRI
1P401A-HW4 SUR	BRKT/HA7	C-198638		RR A	642057	03/30/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-K-1 ITEM: B10.10

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1P401B-HW1 SUR	BRKT/HB6/H42	C-198638		RR B	642058	04/01/92	Y	NRI
1P401B-HW2 SUR	BRKT/H41	C-198638		RR B	642059	04/01/92	Y	NRI
1P401B-HW3 SUR	BRKT/HB5	C-198638		RR B	642060	04/01/92	Y	NRI
1P401B-HW4 SUR	BRKT/HB7	C-198638		RR B	642061	04/01/92	Y	NRI

TALLY ITEM B10.10 24
TALLY CDECAT B-K-1 24

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-M-2 ITEM: B12.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HV1F005A VT-3	VALVE INT SUR	ISI-DCA-109-1		CS A	003-92	03/18/92	Y	NRI
HV1F005B VT-3	VALVE INT SUR	ISI-DCA-109-2		CS B	035-92	04/14/92	Y	NRI
1F010A VT-3	VALVE INT SUR	ISI-DLA-101-1		FW	036-92	04/15/92	Y	VISUAL ACCPT
1F010B VT-3	VALVE INT SUR	ISI-DLA-103-1		FW	030-92	03/30/92	Y	NRI
HV1F015A VT-3	VALVE INT SUR	ISI-DCA-110-1		RHR A	032-92	03/30/92	Y	NRI
HV1F050A VT-3	VALVE INT SUR	ISI-DCA-110-1		RHR A	010-92	03/27/92	Y	NRI

TALLY ITEM B12.40 6
TALLY CDECAT B-M-2 6

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
RPV HEAD INTERIOR VT-3	INT SURFACES	ISI-C-198624	N/A	RPV-I N	622242	03/30/92	Y	NRI

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

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
BAFFLE PLATE WELD VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	N/A	RPV-I N	622224	04/16/92	Y	NRI
DRYER SUP BRKT A VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	N/A	RPV-I N	622225	04/16/92	Y	NRI
DRYER SUP BRKT B VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	N/A	RPV-I N	622226	4/16/92	Y	NRI
DRYER SUP BRKT C VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	N/A	RPV-I N	622227	04/16/92	Y	NRI
DRYER SUP BRKT D VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	N/A	RPV-I N	622228	04/16/92	Y	NRI
N2A RISR SUP WELD A VT-1	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4		RPV-I	622297	04/16/92	Y	NRI
N2A RISR SUP WELD B VT-1	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4		RPV-I	622298	04/16/92	Y	NRI
N2J RISR SUP WELD A VT-1	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	N/A	RPV-I N	622229	04/16/92	Y	NRI
N2J RISR SUP WELD B VT-1	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	N/A	RPV-I N	622230	04/16/92	Y	NRI
N2K RISR SUP WELD A VT-1	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	N/A	RPV-I N	622231	04/16/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
N4F BRKT WELD A VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 1	N/A	RPV-I N	622232	04/16/92	Y	NRI
N4F BRKT WELD B VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 1	N/A	RPV-I N	622233	04/16/92	Y	NRI
N5A BRKT WELD B VT-1	RPV ATTACH	ISI-RPV-INT-001 SHT 1		RPV-I	622295	04/16/92	Y	NRI
N5A BRKT WELD C VT-1	RPV ATTACH	ISI-RPV-INT-001 SHT 1		RPV-I	622296	04/16/92	Y	NRI
N5B BRKT WELD D VT-1	RPV ATTACH	ISI-RPV-INT-001 SHT 1	N/A	RPV-I N	622234	04/16/92	Y	NRI
SHRD SUP LEG WELD A VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622242	04/03/92	Y	NRI
SHRD SUP LEG WELD B VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622244	04/03/92	Y	NRI
SHRD SUP LEG WELD C VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2		RPV-I	622306	04/03/92	Y	NRI
SHRD SUP LEG WELD E VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2		RPV-I	622307	04/03/92	Y	NRI
SHRD SUP LEG WELD F VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622246	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SHRD SUP LEG WELD G VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622248	04/03/92	Y	NRI
SHRD SUP LEG WELD H VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622250	04/03/92	Y	NRI
SHRD SUP LEG WELD J VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622252	04/03/92	Y	NRI
SHRD SUP LEG WELD K VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2		RPV-I	622309	04/03/92	Y	NRI
SHRD SUP LEG WELD M VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2		RPV-I	622309	04/03/92	Y	NRI
SHRD SUP LEG WELD N VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622254	04/03/92	Y	NRI
SHRD SUP LEG WELD P VT-1	RPV ATTACH WELD	ISI-C-199587		RPV-I	622256	04/03/92	Y	NRI
SURV SPEC BRKT 3B VT-1	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	N/A	RPV-I	622235	04/16/92	Y	NRI

TALLY ITEM B13.20 28

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-N-2 ITEM: B13.21

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
BAFFLE PLATE VT-1	CORE SUPPORT	ISI-RPV-INT-001 SHT 2	N/A	RPV-I	622236	04/16/92	Y	NRI
FUEL SUP PC 10-23 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622259	04/03/92	Y	NRI
FUEL SUP PC 10-39 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622260	04/03/92	Y	NRI
FUEL SUP PC 14-23 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622261	04/03/92	Y	NRI
FUEL SUP PC 14-39 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622262	04/03/92	Y	NRI
FUEL SUP PC 18-15 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622263	04/03/92	Y	NRI
FUEL SUP PC 18-47 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622264	04/03/92	Y	NRI
FUEL SUP PC 30-11 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622265	04/03/92	Y	NRI
FUEL SUP PC 30-51 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622266	04/03/92	Y	NRI
FUEL SUP PC 42-15 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622267	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-N-2 ITEM: B13.21

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
FUEL SUP PC 42-47 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622268	04/03/92	Y	NRI
FUEL SUP PC 46-23 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622269	04/03/92	Y	NRI
FUEL SUP PC 46-39 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622270	04/03/92	Y	NRI
FUEL SUP PC 50-23 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622271	04/03/92	Y	NRI
FUEL SUP PC 50-39 VT-1	CORE SUPPORT	FF113011 SHT 9101		RPV-I	622272	04/03/92	Y	NRI
SHROUD VT-1	CORE SUPPORT	ISI-RPV-INT-001 SHT 1	N/A	RPV-I	622239	04/16/92	Y	NRI
SHROUD SUP LEG A VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622243	04/03/92	Y	NRI
SHROUD SUP LEG B VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622245	04/03/92	Y	NRI
SHROUD SUP LEG C VT-1	LOWER PLENUM	ISI-RPV-INT-001 SHT 2		RPV-I	622310	04/03/92	Y	NRI
SHROUD SUP LEG E VT-1	LOWER PLENUM	ISI-RPV-INT-001 SHT 2		RPV-I	622311	04/03/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-N-2 ITEM: B13.21

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SHROUD SUP LEG F VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622247	04/03/92	Y	NRI
SHROUD SUP LEG G VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622249	04/03/92	Y	NRI
SHROUD SUP LEG H VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622251	04/03/92	Y	NRI
SHROUD SUP LEG J VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622253	04/03/92	Y	NRI
SHROUD SUP LEG K VT-1	LOWER PLENUM	ISI-RPV-INT-001 SHT 2		RPV-I	622312	04/03/92	Y	NRI
SHROUD SUP LEG M VT-1	LOWER PLENUM	ISI-RPV-INT-001 SHT 2		RPV-I	622313	04/03/92	Y	NRI
SHROUD SUP LEG N VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622255	04/03/92	Y	NRI
SHROUD SUP LEG P VT-1	LOWER PLENUM	ISI-C-199587		RPV-I	622257	04/03/92	Y	NRI
SHROUD SUPPORT VT-1	CORE SUPPORT	ISI-RPV-INT-001 SHT 1&2	N/A	RPV-I	622240	04/16/92	Y	NRI

TALLY ITEM B13.21 29
TALLY CDECAT B-N-2 57

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: B-O ITEM: B14.10

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
CRD-02-19-B-A SUR	TUBE B-TUBE A	ISI-C-198607	N/A	RPV-E	622083	04/12/92	Y	NRI
CRD-02-19-F-B SUR	FL-CRD HOUSING	ISI-C-198607	N/A	RPV-E	622084	RRGEN-92	Y	NOT ACCESSIBLE
CRD-10-11-B-A SUR	TUBE B-TUBE A	ISI-C-198607	N/A	RPV-E	622085	04/12/92	Y	NRI
CRD-10-11-F-B SUR	FL-CRD HOUSING	ISI-C-198607	N/A	RPV-E	622086	RRGEN-92	Y	NOT ACCESSIBLE
CRD-30-03-B-A SUR	TUBE B-TUBE A	ISI-C-198607	N/A	RPV-E	622087	04/12/92	Y	NRI
CRD-30-03-F-B SUR	FL-CRD HOUSING	ISI-C-198607	N/A	RPV-E	622088	RRGEN-92	Y	NOT ACCESSIBLE
CRD-50-11-B-A SUR	TUBE B-TUBE A	ISI-C-198607	N/A	RPV-E	622089	04/12/92	Y	NRI
CRD-50-11-F-B SUR	FL-CRD HOUSING	ISI-C-198607	N/A	RPV-E	622090	RRGEN-92	Y	NOT ACCESSIBLE

TALLY ITEM B14.10 8
TALLY CDECAT B-O 8

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-B ITEM: C2.21

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1E-205A-23 SUR	NOZ-SH	C-198636/RHR HX		RHR A	492016	03/20/92	Y	NRI
1E-205A-23 VOL	NOZ-SH	C-198636/RHR HX	P-86	RHR A	492017	04/03/92	Y	WELDING ACCPT

TALLY ITEM C2.21 2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-B ITEM: C2.22

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1E205A-23 VOL	NIRN4-A	C-198636P/RHR HX	P-91	RHR A	492018	03/26/92	Y	I.R. GEOMETRY ACCPT

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

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.10

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1E-205A-5 SUR	HX-SUP	C-198636/RHR HX		RHR A	492019	03/12/92	Y	NRI
1E-205A-5A SUR	HX-SUP	C-198636/RHR HX		RHR A	492020	03/12/92	Y	NRI
1E-205A-5C SUR	HX-SUP	C-198636/RHR HX		RHR A	492022	03/12/92	Y	NRI

TALLY ITEM C3.10 3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID : / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBB1011-HW-2A SUR	P-LUG/H22	ISI-GBB-101-1-H		CS A	512003	03/13/92	Y	NRI
GBB1011-HW-2B SUR	P-LUG/H22	ISI-GBB-101-1-H		CS A	512003	03/13/92	Y	NRI
GBB1011-HW-2C SUR	P-LUG/H22	ISI-GBB-101-1-H		CS A	512003	03/13/92	Y	NRI
GBB1011-HW-2D SUR	P-LUG/H22	ISI-GBB-101-1-H		CS A	512003	03/13/92	Y	NRI
GBB1013-HW-4I SUR	P-PLT/H37	ISI-GBB-101-3-H		CS A	512004	03/07/92	Y	NRI
GBB1013-HW-4J SUR	P-PLT/H37	ISI-GBB-101-3-H		CS A	512004	03/07/92	Y	NRI
GBB1013-HW-4K SUR	P-PLT/H37	ISI-GBB-101-3-H		CS A	512004	03/07/92	Y	NRI
GBB1013-HW-4L SUR	P-PLT/H37	ISI-GBB-101-3-H		CS A	512004	03/07/92	Y	NRI
GBB1014-HW-1A SUR	P-LUG/H2	ISI-GBB-101-4-H		CS B	512005	05/06/92	Y	NRI
GBB1014-HW-1B SUR	P-LUG/H2	ISI-GBB-101-4-H		CS B	512005	05/06/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBB1014-HW-1C SUR	P-LUG/H2	ISI-GBB-101-4-H		CS B	512005	05/06/92	Y	NRI
GBB1014-HW-1D SUR	P-LUG/H2	ISI-GBB-101-4-H		CS B	512005	05/06/92	Y	NRI
GBB1014-HW-18A SUR	P-PLT/H35	ISI-GBB-101-4-H		CS B	512006	05/08/92	Y	NRI
GBB1014-HW-18B SUR	P-PLT/H35	ISI-GBB-101-4-H		CS B	512006	05/08/92	Y	NRI
GBB1014-HW-18C SUR	P-PLT/H35	ISI-GBB-101-4-H		CS B	512006	05/08/92	Y	NRI
GBB1014-HW-18D SUR	P-PLT/H35	ISI-GBB-101-4-H		CS B	512006	05/08/92	Y	NRI
EBB1021-HW-1A SUR	P-LUG/H11	ISI-EBB-102-1-H		HPCI	522003	03/26/92	Y	NRI
EBB1021-HW-1B SUR	P-LUG/H11	ISI-EBB-102-1-H		HPCI	522003	03/26/92	Y	NRI
EBB1021-HW-1C SUR	P-LUG/H11	ISI-EBB-102-1-H		HPCI	522003	03/26/92	Y	NRI
EBB1021-HW-1D SUR	P-LUG/H11	ISI-EBB-102-1-H		HPCI	522003	03/26/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HBB1081-HW-1 SUR	P-LUG/H3	ISI-HBB-108-1-H		HPCI	522004	03/12/92	Y	NRI
HBB1081-HW-2 SUR	P-SUP/H1	ISI-HBB-108-1-H		HPCI	522005	03/26/92	Y	NRI
DBB1011-HW-22A SUR	PL-P/H17	ISI-DBB-101-1-H		MS	832034	04/15/92	Y	NRI
DBB1011-HW-22B SUR	PL-P/H17	ISI-DBB-101-1-H		MS	832034	04/15/92	Y	NRI
DBB1011-HW-22C SUR	PL-P/H17	ISI-DBB-101-1-H		MS	832034	04/15/92	Y	NRI
GBB1311-HW1 SUR	P-PLT/H1	ISI-GBB-131-1-H		MSIV	832068	03/26/92	Y	NRI
DBB1211-HW-1 SUR	P-SAD/H7	ISI-DBB-121-1-H		RCIC	502017	03/13/92	Y	NRI
DBB1212-HW-2 SUR	IA/H14	ISI-DBB-121-2-H		RCIC	502018	03/16/92	Y	NRI
DBB1212-HW-3A SUR	P-LUG/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
DBB1212-HW-3B SUR	P-LUG/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DBB1212-HW-3C SUR	P-LUG/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
DBB1212-HW-3D SUR	P-LUG/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
DBB1212-HW-3E SUR	P-PLT/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
DBB1212-HW-3F SUR	P-PLT/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
DBB1212-HW-3G SUR	P-PLT/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
DBB1212-HW-3H SUR	P-PLT/H21	ISI-DBB-121-2-H		RCIC	502003	03/26/92	Y	NRI
HBB1012-HW-4 SUR	P-SUP/H2	ISI-HBB-101-2-H		RCIC	502019	03/13/92	Y	NRI
GBB1041-HW-1A SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1041-HW-1B SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1041-HW-1C SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBB1041-HW-1D SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1041-HW-2A SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1041-HW-2B SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1041-HW-2C SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1041-HW-2D SUR	P-LUG/H5	ISI-GBB-104-1-H		RHR A	492023	03/12/92	Y	NRI
GBB1043-HW-2A SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1043-HW-2B SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1043-HW-2C SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1043-HW-2D SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1043-HW-6A SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1043-HW-6B SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1043-HW-6C SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1043-HW-6D SUR	P-LUG/H23	ISI-GBB-104-3-H		RHR B	492065	03/12/92	Y	NRI
GBB1061-HW-5A SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-5B SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-5C SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-5D SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-5E SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-5F SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-5H SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBB1061-HW-5J SUR	P-LUG/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6A SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6B SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6C SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6D SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6E SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6F SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6G SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1061-HW-6H SUR	PLT-P/H5	ISI-GBB-106-1-H		RHR A	492024	03/12/92	Y	NRI
GBB1062-HW-14A SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBB1062-HW-14B SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14C SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14D SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14E SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14F SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14G SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14H SUR	P-LUG/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14I SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14J SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14K SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1062-HW-14L SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14M SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14N SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14O SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1062-HW-14P SUR	PLT-P/H14	ISI-GBB-106-2-H		RHR B	492025	04/15/92	Y	NRI
GBB1092-HW-4A SUR	PLT-P/H26	ISI-GBB-109-2-H		RHR A	492067	03/30/92	Y	NRI
GBB1092-HW-4B SUR	PLT-P/H26	ISI-GBB-109-2-H		RHR A	492067	03/30/92	Y	NRI
GBB1092-HW-4C SUR	PLT-PH26	ISI-GBB-109-2-H		RHR A	492067	03/30/92	Y	NRI
HBB1203-HW-1A SUR	P-PLT/H25	ISI-HBB-120-3-H		RHR A	492027	03/12/92	Y	NRI
HBB1203-HW-1B SUR	P-PLT/H25	ISI-HBB-120-3-H		RHR A	492027	03/12/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-C ITEM: C3.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HBB1203-HW-1C SUR	P-PLT/H25	ISI-HBB-120-3-H		RHR A	492027	03/12/92	Y	NRI
HBB1203-HW-1D SUR	P-PLT/H25	ISI-HBB-120-3-H		RHR A	492027	03/12/92	Y	NRI

TALLY ITEM C3.40 92
TALLY CDECAT C-C 95

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F ITEM: C5.11

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
HBB1081-2-B SUR	P-E	ISI-HBB-108-1		HPCI	522006	03/12/92	Y	NRI
HBB1082-FW-4 SUR	E-V	ISI-HBB-108-2		HPCI	522007	03/13/92	Y	NRI
HBB1082-FW-5 SUR	V-FH	ISI-HBB-108-2		HPCI	522008	03/13/92	Y	NRI
HBB1012-1-A SUR	P-CP	ISI-HBB-101-2		RCIC	502004	03/13/92	Y	NRI
HBB1012-2A-E SUR	P-E	ISI-HBB-101-2		RCIC	502005	03/13/92	Y	NRI
HBB1012-2C-A SUR	FL-P	ISI-HBB-101-2		RCIC	502006	03/13/92	Y	NRI
HBB1101-FW-5 SUR	E-T	ISI-HBB-110-1		RHR	492028	04/12/92	Y	NRI
HBB1101-5-F SUR	RED-FL	ISI-HBB-110-1		RHR A	492029	04/02/92	Y	NRI
HBB1203-FW-9 SUR	P-FL	ISI-HBB-120-3		RHR A	492030	03/26/92	Y	NRI
HBB1203-1B-B1 SUR	P-E	ISI-HBB-120-3		RHR A	492031	03/12/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F ITEM: C5.11

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION
EXAM TYPE				LOOP	NCR NO			RESOLUTION
TALLY ITEM C5.11 10								

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F ITEM: C5.21

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
DBB1052-2-A VOL	E-P	ISI-DBB-105-2	P-63	MS	832035	03/30/92	Y	NRI
DBB1052-2-A SUR	E-P	ISI-DBB-105-2		MS	832036	03/30/92	Y	NRI
DBB1052-3-C VOL	T-P	ISI-DBB-105-2	P-34	MS	832037	04/18/92	Y	NRI
DBB1052-3-C SUR	T-P	ISI-DBB-105-2		MS	832038	04/11/92	Y	NRI
DBB1052-3-M VOL	RESINT-P	ISI-DBB-105-2	P-63	MS	832039 92-106	04/21/92	Y	NRI
DBB1052-3-M SUR	RESINT-P	ISI-DBB-105-2		MS	832040 92-106	05/20/92	Y	LINEAR REPAIR
DBB1211-FW-4 VOL	V-P	ISI-DBB-121-1	P-18	RCIC	502007	03/14/92	Y	I.D. GEOMETRY ACCPT
DBB1211-FW-4 SUR	V-P	ISI-DBB-121-1		RCIC	502008	03/20/92	Y	NRI
DBB1211-FW-8 VOL	E-V	ISI-DBB-121-1	P-18	RCIC	502009	03/16/92	Y	NRI
DBB1211-FW-8 SUR	E-V	ISI-DBB-121-1		RCIC	502010	03/13/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F ITEM: C5.21

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DBB1213-FW-5 VOL	P-E	ISI-DBB-121-3	P-18	RCIC	502001	03/16/92	Y	NRI
DBB1213-FW-5 SUR	P-E	ISI-DBB-121-3		RCIC	502011	03/16/92	Y	NRI
GBB1061-FW-5 SUR	V-P	ISI-GBB-106-1		RHR A	492032	03/12/92	Y	NRI
GBB1061-FW-5 VOL	V-P	ISI-GBB-106-1	P-62	RHR A	492033	03/20/92	Y	NRI
GBB1061-FW-7 VOL	P-FL	ISI-GBB-106-1	P-62	RHR A	492034	03/16/92	Y	NRI
GBB1061-FW-7 SUR	P-FL	ISI-GBB-106-1		RHR A	492035	03/12/92	Y	NRI
GBB1061-3-A VOL	E-P	ISI-GBB-106-1	P-62	RHR A	492036 92-051	04/02/92	Y	NRI
GBB1061-3-A SUR	E-P	ISI-GBB-106-1		RHR A	492037 92-051	04/24/92	Y	LINEAR REPAIR
GBB1151-1-A VOL	E-P	ISI-GBB-115-1	P-62	RHR B	492038	03/12/92	Y	NRI
GBB1151-1-A SUR	E-P	ISI-GBB-115-1		RHR B	492039	03/07/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F ITEM: C5.21

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1161-FW-1 VOL	NOZ-RED	ISI-GBB-116-1	P-62	RHR A	492040	03/16/92	Y	NRI
GBB1161-FW-1 SUR	NOZ-RED	ISI-GBB-116-1		RHR A	492041	03/12/92	Y	NRI

TALLY ITEM C5.21 22

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F ITEM: C5.31

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1092-1-E SUR	P-SWOL	ISI-GBB-109-2		RHR A	492042	03/30/92	Y	NRI

TALLY ITEM C5.31 1
TALLY CDECAT C-F 33

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

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

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1014-8-A SUR	P-FL	ISI-GBB-101-4		CS B	512007	04/11/92	Y	NRI
HBB1042-4-B SUR	E-FL	ISI-HBB-104-2		CS B	512008	04/12/92	Y	NRI
HBB1042-5F-C SUR	P-E	ISI-HBB-104-2		CS B	512009	04/12/92	Y	NRI
HBB1091-2A-D SUR	E-P	ISI-HBB-109-1		HPCI	522009	03/26/92	Y	NRI
VBB1011-1-A SUR	FL-E	ISI-VBB-101-1		HPCI	522010	03/12/92	Y	NRI

TALLY ITEM C5.11 5

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F* ITEM: C5.21

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DBB1201-3-D VOL	P-E	ISI-DBB-120-1	P-40	HPCI	522023	03/16/92	Y	NRI
DBB1201-3-D SUR	P-E	ISI-DBB-120-1		HPCI	522024	03/13/92	Y	NRI
EBB1021-FW-2 VOL	E-P	ISI-EBB-102-1	P-39	HPCI	522012	03/20/92	Y	NRI
EBB1021-FW-2 SUR	E-P	ISI-EBB-102-1		HPCI	522011	03/16/92	Y	NRI
EBB1021-FW-4 VOL	P-FL	ISI-EBB-102-1	P-39	HPCI	522013	04/16/92	Y	POROSITY ACCPT
EBB1021-FW-4 SUR	P-FL	ISI-EBB-102-1		HPCI	522014	03/12/92	Y	NRI

TALLY ITEM C5.21 6

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-F* ITEM: C5.22

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DBB1191-2A-F VOL	TEE SEAM	ISI-DBB-119-1	P-73	HPCI	522002	04/11/92	Y	NRI
DBB1191-2A-F SUR	TEE SEAM	ISI-DBB-119-1		HPCI	522015	04/12/92	Y	NRI

TALLY ITEM C5.22 2
TALLY CDECAT C-F* 13

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: C-G ITEM: C6.10

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1P206A-361-4-6 SUR	E-FL	ISI-C198635		CS A	512010	03/07/92	Y	NRI
1P202A-361-13-L SUR	SEAM	C-198634/RHR PUMP		RHR A	492066	04/02/92	Y	REL REQUEST

TALLY ITEM C6.10 2
TALLY CDECAT C-G 2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: D-B ITEM: D2.20

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HRC0093-H021IA VT-3	H21/5 INT ATT	ISI-HRC-9-3-H		ESW A	542001	03/30/92	Y	NRI
HRC1011-H001IA VT-3	H1/5 INT ATT	ISI-HRC-101-1-H		ESW B	542002	04/03/92	Y	NRI
HRC1012-H20-IA VT-3	PLT/H20-5	ISI-HRC-101-2-H		ESW B	542003	04/05/92	Y	NRI
HRC1101-H4-IA VT-3	LUG/H4-1	ISI-HRC-110-1-H		ESW B	542004	04/05/92	Y	NRI
HRC3302-H1-IA VT-3	LUG/H1-4	ISI-HRC-3302-H		ESW C	542005	04/11/92	Y	NRI

TALLY ITEM D2.20 5

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: D-B ITEM: D2.40

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBC10109-H320IA VT-3	H320/1 INT ATT	ISI-GBC-101-9-H		MS	832041	04/16/92	Y	NRI
GBC10111-H166IA VT-3	H166/1 INT ATT	ISI-GBC-101-11-H		MS	832072	04/16/92	Y	NRI
GBC10111-H173IA VT-3	H173/8INT ATT	ISI-GBC-101-11-H		MS	832069	03/20/92	Y	NRI
GBC10115-H119IA VT-3	H119/8 INT ATT	ISI-GBC-101-15-H		MS	832070	04/16/92	Y	NRI

TALLY ITEM D2.40 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: D-B ITEM: D3.30

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBC10114-H221IA VT-3	H221/8 INT ATT	ISI-GBC-101-14-H		MS	832071	04/24/92	Y	NRI

TALLY ITEM D3.30 1
TALLY CDECAT D-B 10

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: F-PMP ITEM: F-HIP

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1P-204(MAIN) VT-3	ANCHOR BOLTS	ISI-EBB-102-1		HPCI	522016	03/16/92	Y	NRI
1P-209(BOOST) VT-3'	ANCHOR BOLTS	ISI-HBB-107-1		HPCI	522017	04/12/92	Y	NRI

TALLY ITEM F-HIP 2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: F-PMP ITEM: F-RCP

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
RWS1002-H45 VT-3	RIGID SUP	ISI-VRR-B31-2-H		RR B	642062	04/01/92	Y	NRI

TALLY ITEM F-RCP 1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: F-PMP ITEM: F-RHP

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
1P-202A VT-3	ANCHOR BOLTS	ISI-HBB-110-1		RHR A	492043	03/20/92	Y	NRI

TALLY ITEM F-RHP 1
TALLY CDECAT F-PMP 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: F-TRB ITEM: F-HIT

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1S-211 VT-3	ANCHOR BOLTS	ISI-HBB-114-1		HPCI	522018	03/16/92	Y	NRI

TALLY ITEM F-HIT 1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: F-TRB ITEM: F-RIT

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1S-212 VT-3	ANCHOR BOLTS	ISI-HBB-101-2		RCIC	502012	03/16/92	Y	NRI

TALLY ITEM F-RIT 1
TALLY CDECAT F-TRB 2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: F-VSL ITEM: F-RPV

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
1S-401 VT-3	SKIRT	ISI-C-205755		RPV-E	622091	04/27/92	Y	NRI

TALLY ITEM F-RPV 1
TALLY CDECAT F-VSL 1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: NCHOR ITEM: F-ANCH

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HBB1041-H-X206A VT-3	ANCHOR	ISI-HBB-104-1-H		CS A	512011	03/07/92	Y	NRI
HRC0093-H21 VT-3	ANCHOR	ISI-HRC-9-3-H		ESW A	542006	03/30/92	Y	NRI
HRC1011-H1 VT-3	ANCHOR	ISI-HRC-101-1-H		ESW B	542007	04/03/92	Y	NRI
HRC1101-H04 VT-3	ANCHOR	ISI-HRC-110-1-H		ESW B	542008	04/05/92	Y	NRI
HBB1082-H-X210 VT-3	ANCHOR	ISI-HBB-108-2-H		HPCI	522019	03/12/92	Y	NRI
HBB1091-H10 VT-3	ANCHOR	ISI-HBB-109-1-H		HPCI	522020	04/12/92	Y	NRI
GBC10111-HX400L VT-3	ANCHOR	ISI-GBC-101-11-H		MS	832042	03/20/92	Y	NRI
GBC1016-H-X400F VT-3	ANCHOR	ISI-GBC-101-6-H		MS	832043	03/20/92	Y	NRI
VNBB212-H-X7A VT-3	FH-PEN	ISI-VNB-B21-2-H		MS	832044	03/20/92	Y	NRI
DBB1212-H14 VT-3	ANCHOR	ISI-DBB-121-2-H		RCIC	502013	03/13/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: NCHOR ITEM: F-ANCH

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HBB1011-H-X215 VT-3	ANCHOR	ISI-HBB-101-1-H		RCIC	502014	03/13/92	Y	NRI
GBB1062-H16 VT-3	ANCHOR	ISI-GBB-106-2-H		RHR B	492044	03/12/92	Y	NRI
GBB1092-H8 VT-3	ANCHOR	ISI-GBB-109-2-H		RHR A	492045	03/12/92	Y	NRI
HBB1104-H-X203D VT-3	ANCHOR	ISI-HBB-110-4-H		RHR B	492046	03/30/92	Y	NRI

TALLY ITEM F-ANCH 14
TALLY CDECAT NCHOR 14

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: RIGID ITEM: F-RIGD

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
VBB1021-H11 VT-3	RIG SUP	ISI-VBB-102-1-H		CRD	552001	03/20/92	Y	NRI
GBB1012-H26 VT-3	GUIDE	ISI-GBB-101-2-H		CS A	512012	03/07/92	Y	NRI
GBB1014-H4 VT-3	RIG HANG	ISI-GBB-101-4-H		CS B	512013	04/12/92	Y	NRI
GBB1032-H10 VT-3	SWAY ST	ISI-GBB-103-2-H		CS A	512014	03/12/92	Y	NRI
HRC0031-H44 VT-3	RIG SUP	ISI-HRC-3-1-H		ESW A	542009	04/28/92	Y	NRI
HRC0033-H01 VT-3	GUIDE	ISI-HRC-3-3-H		ESW A	542010	03/30/92	Y	NRI
HRC0072-H13 VT-3	RIG HANG	ISI-HRC-7-2-H		ESW B	542011	04/05/92	Y	NRI
HRC0093-H26 VT-3	GUIDE	ISI-HRC-9-3-H		ESW B	542012	04/28/92	Y	NRI
HRC0113-H08 VT-3	RIG SUP	ISI-HRC-11-3-H		ESW A	542013	03/30/92	Y	NRI
HRC1011-H02 VT-3	RIG HANG	ISI-HRC-101-1-H		ESW B	542014	04/05/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: RIGID ITEM: F-RIGD

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
HRC1052-H18 VT-3	RIG SUP	ISI-HRC-105-2-H		ESW A	542015	04/05/92	Y	NRI
HRC1081-H01 VT-3	RIG SUP	ISI-HRC-108-1-H		ESW A	542016	03/26/92	Y	NRI
HRC1101-H02 VT-3	RIG SUP	ISI-HRC-110-1-H		ESW B	542017	04/12/92	Y	NRI
HRC3300-H2 VT-3	SWAY ST	ISI-HRC-3300-H		ESW A	542020	05/08/92	Y	VISUAL ACCPT
HRC3302-H1 VT-3	RIG SUP	ISI-HRC-3302-H		ESW C	542021	04/11/92	Y	NRI
HCC1031-H34 VT-3	SWAY ST	ISI-HCC-103-1-H		FPC	542019	03/07/92	Y	NRI
DBB1041-H19 VT-3	WHIP RESTRAINT	ISI-DBB-104-1-H		MS	832045	03/16/92	Y	NRI
DBB1041-H8 VT-3	SWAY ST	ISI-DBB-104-1-H		MS	092-92 92-130	05/20/92	Y	VISUAL REWORK
GBC10104-H258 VT-3	SWAY ST	ISI-GBC-101-4-H		MS	832046	04/11/92	Y	NRI
GBC10109-H251 VT-3	SWAY ST	ISI-GBC-101-9-H		MS	832047	04/11/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: RIGID ITEM: F-RIGD

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBC10111-H174 VT-3	SWAY ST	ISI-GBC-101-11-H		MS	832048	03/20/92	Y	NRI
DBB1211-H4 VT-3	SWAY ST	ISI-DBB-121-1-H		RCIC	502015	03/16/92	Y	NRI
HBB1012-H6 VT-3	RIG HANG	ISI-HBB-101-2-H		RCIC	502016	03/13/92	Y	NRI
GBB1092-H6 VT-3	SWAY ST	ISI-GBB-109-2-H		RHR A	492047	03/12/92	Y	NRI
GBB1131-H1 VT-3	SWAY ST	ISI-GBB-113-1-H		RHR A	492048	3/12/920	Y	NRI
HRC00253-H14 VT-3	RIG SUP	ISI-HRC-2-53-H		RHRSW B	162001	04/12/92	Y	NRI
HRC1123-H18 VT-3	RIG SUP	ISI-HRC-112-3-H		RHRSW A	162002	03/20/92	Y	NRI

TALLY ITEM F-RIGD 27
TALLY CDECAT RIGID 27

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SNUB ITEM: F-VT34

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1011-H33 VT-3	SNUBMECH	ISI-GBB-101-1-H		CS A	512015	03/07/92	Y	NRI
GBB1011-H33 VT-4	SNUBMECH	ISI-GBB-101-1-H		CS A	512015	03/07/92	Y	NRI
HRC1051-H13 VT-3	SNUBMECH	ISI-HRC-105-1-H		ESW A	542018 92-088	04/24/92	Y	VISUAL ACCPT
HRC1051-H13 VT-4	SNUBMECH	ISI-HRC-105-1-H		ESW A	542018	04/24/92	Y	NRI
DBB1202-H2 VT-3	SNUBMECH	ISI-DBB-120-2-H		HPCI	522021	03/12/92	Y	NRI
DBB1202-H2 VT-4	SNUBMECH	ISI-DBB-120-2-H		HPCI	522021	03/12/92	Y	NRI
DBB1041-H15 VT-3	SNUBMECH	ISI-DBB-104-1-H		MS	832049	05/20/92	Y	NRI
DBB1041-H15 VT-4	SNUBMECH	ISI-DBB-104-1-H		MS	832049 92-055	05/20/92	Y	VISUAL ACCPT
DBB1041-H16 VT-3	SNUBMECH	ISI-DBB-104-1-H		MS	832050	03/22/92	Y	NRI
DBB1041-H16 VT-4	SNUBMECH	ISI-DBB-104-1-H		MS	832050	03/22/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SNUB ITEM: F-VT34

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DBB1051-H2 VT-3	SNUBMECH	ISI-DBB-105-1-H		MS	832051 92-048	05/20/92	Y	VISUAL REWORK
DBB1051-H2 VT-4	SNUBMECH	ISI-DBB-105-1-H		MS	832051	05/20/92	Y	NRI
GBC10103-H272 VT-3	SNUBMECH	ISI-GBC-101-3-H		MS	832052	04/16/92	Y	NRI
GBC10103-H272 VT-4	SNUBMECH	ISI-GBC-101-3-H		MS	832052	04/16/92	Y	NRI
GBC10104-H281 VT-3	SNUBMECH	ISI-GBC-101-4-H		MS	832053 92-108	05/06/92	Y	VISUAL REWORK
GBC10104-H281 VT-4	SNUBMECH	ISI-GBC-101-4-H		MS	832053	05/06/92	Y	NRI
GBC10105-H231 VT-3	SNUBMECH	ISI-GBC-101-5-H		MS	832054	04/11/92	Y	NRI
GBC10105-H231 VT-4	SNUBMECH	ISI-GBC-101-5-H		MS	832054	04/11/92	Y	NRI
GBC10108-H247 VT-3	SNUBMECH	ISI-GBC-101-8-H		MS	832055	04/16/92	Y	NRI
GBC10108-H247 VT-4	SNUBMECH	ISI-GBC-101-8-H		MS	832055	04/16/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SNUB ITEM: F-VT34

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBC10109-H255 VT-3	SNUBMECH	ISI-GBC-101-9-H		MS	832056	03/20/92	Y	NRI
GBC10109-H255 VT-4	SNUBMECH	ISI-GBC-101-9-H		MS	832056	03/20/92	Y	NRI
GBC10109-H276 VT-3	SNUBMECH	ISI-GBC-101-9-H		MS	832057	04/16/92	Y	NRI
GBC10109-H276 VT-4	SNUBMECH	ISI-GBC-101-9-H		MS	832057	04/16/92	Y	NRI
GBC10111-H165 VT-3	SNUBMECH	ISI-GBC-101-11-H		MS	832058	03/20/92	Y	NRI
GBC10111-H165 VT-4	SNUBMECH	ISI-GBC-101-11-H		MS	832058	03/20/92	Y	NRI
MST0221-H36 VT-3	SNUBMECH	ISI-VNB-B21-1-H		MS	832059	03/30/92	Y	NRI
MST0221-H36 VT-4	SNUBMECH	ISI-VNB-B21-1-H		MS	832059	03/30/92	Y	NRI
MST0221-H50 VT-3	SNUBMECH	ISI-VNB-B21-1-H		MS	832060	04/11/92	Y	NRI
MST0221-H50 VT-4	SNUBMECH	ISI-VNB-B21-1-H		MS	832060	04/11/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SNUB ITEM: F-VT34

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DCA1112-H14 VT-3	SNUBMECH	ISI-DCA-111-2-H		RHR A	492049 92-073	05/20/92	Y	VISUAL REWORK
DCA1112-H14 VT-4	SNUBMECH	ISI-DCA-111-2-H		RHR A	492049	05/20/92	Y	NRI
GBB1041-H8 VT-3	SNUBMECH	ISI-GBB-104-1-H		RHR A	492068	03/12/92	Y	NRI
GBB1041-H8 VT-4	SNUBMECH	ISI-GBB-104-1-H		RHR A	492068	03/12/92	Y	NRI
GBB1062-H26 VT-3	SNUBMECH	ISI-GBB-106-2-H		RHR B	492050	03/07/92	Y	NRI
GBB1062-H26 VT-4	SNUBMECH	ISI-GBB-106-2-H		RHR B	492050	03/07/92	Y	NRI
GBB1072-H40 VT-3	SNUBMECH	ISI-GBB-107-2-H		RHR B	492051	03/30/92	Y	NRI
GBB1072-H40 VT-4	SNUBMECH	ISI-GBB-107-2-H		RHR B	492051	03/30/92	Y	NRI
GBB1091-H29 VT-3	SNUBMECH	ISI-GBB-109-1-H		RHR B	492052	03/07/92	Y	NRI
GBB1091-H29 VT-4	SNUBMECH	ISI-GBB-109-1-H		RHR B	492052	03/07/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SNUB ITEM: F-VT34

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
GBB1092-H25 VT-3	SNUBMECH	ISI-GBB-109-2-H		RHR A	492053	03/12/92	Y	NRI
GBB1092-H25 VT-4	SNUBMECH	ISI-GBB-109-2-H		RHR A	492053	03/12/92	Y	NRI
HBB1101-H3 VT-3	SNUBMECH	ISI-HBB-110-1-H		RHR A	492054	04/02/92	Y	NRI
HBB1101-H3 VT-4	SNUBMECH	ISI-HBB-110-1-H		RHR A	492054	04/02/92	Y	NRI
HBB1104-H35 VT-3	SNUBMECH	ISI-HBB-110-4-H		RHR B	492055	04/02/92	Y	NRI
HBB1104-H35 VT-4	SNUBMECH	ISI-HBB-110-4-H		RHR B	492055	04/02/92	Y	NRI
RWS1001-H12 VT-3	SNUBMECH	ISI-VRR-B31-1-H		RR A	642063	03/30/92	Y	NRI
RWS1001-H12 VT-4	SNUBMECH	ISI-VRR-B31-1-H		RR A	642063	03/30/92	Y	NRI
RWS1001-H30 VT-3	SNUBMECH	ISI-VRR-B31-1-H		RR A	642064	03/30/92	Y	NRI
RWS1001-H30 VT-4	SNUBMECH	ISI-VRR-B31-1-H		RR A	642064	03/30/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SNUB ITEM: F-VT34

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
RWS1001-H40 VT-3	SNUBMECH	ISI-VRR-B31-1-H		RR A	642065	03/30/92	Y	NRI
RWS1001-H40 VT-4	SNUBMECH	ISI-VRR-B31-1-H		RR A	642065	03/30/92	Y	NRI
RWS1002-H26 VT-3	SNUBMECH	ISI-VRR-B31-2-H		RR B	642066 92-096	04/24/92	Y	VISUAL ACCPT
RWS1002-H26 VT-4	SNUBMECH	ISI-VRR-B31-2-H		RR B	642066	04/24/92	Y	NRI
RWS1002-H32 VT-3	SNUBMECH	ISI-VRR-B31-2-H		RR B	642067	04/01/92	Y	NRI
RWS1002-H32 VT-4	SNUBMECH	ISI-VRR-B31-2-H		RR B	642067	04/01/92	Y	NRI

TALLY ITEM F-VT34 56
TALLY CDECAT SNUB 56

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OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SPRNG ITEM: F-SPR

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
DBB1131-H2 VT-3	SPRST	ISI-DBB-113-1-H		CS A	512016 92-033	04/24/92	Y	VISUAL ACCPT
DBB1131-H2 VT-4	SPRST	ISI-DBB-113-1-H		CS A	512016 92-033	04/24/92	Y	VISUAL ACCPT
HBB1041-H4 VT-3	SPRST	ISI-HBB-104-1-H		CS A	512017	03/07/92	Y	NRI
HBB1041-H4 VT-4	SPRST	ISI-HBB-104-1-H		CS A	512017	03/07/92	Y	NRI
DLA1042-H2 VT-3	VAR SUP	ISI-DLA-104-2-H		FW B	452017	03/20/92	Y	NRI
DLA1042-H2 VT-4	VAR SUP	ISI-DLA-104-2-H		FW B	452017	03/20/92	Y	NRI
DBB1141-H1 VT-3	SPRST	ISI-DBB-114-1-H		HPCI	522022	05/06/92	Y	NRI
DBB1141-H1 VT-4	SPRST	ISI-DBB-114-1-H		HPCI	522022 92-056	05/06/92	Y	VISUAL ACCPT
DBB1051-H3 VT-3	VAR SUP	ISI-DBB-105-1-H		MS	832061	05/20/92	Y	NRI
DBB1051-H3 VT-4	VAR SUP	ISI-DBB-105-1-H		MS	832061 92-047	05/20/92	Y	VISUAL REWORK

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
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OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SPRNG ITEM: F-SPR

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBC10103-H319 VT-3	VAR SUP	ISI-GBC-101-3-H		MS	832063	05/08/92	Y	NRI
GBC10103-H319 VT-4	VAR SUP	ISI-GBC-101-3-H		MS	832063 92-120	05/08/92	Y	VISUAL ACCPT
GBC10103-H44 VT-3	SPRST	ISI-GBC-101-3-H		MS	92-131	04/23/92	Y	NRI
GBC10103-H44 VT-4	SPRST	ISI-GBC-101-3-H		MS	92-131	04/23/92	Y	NRI
GBC10107-H38 VT-3	SPRST	ISI-GBC-101-7-H		MS	832064	03/20/92	Y	NRI
GBC10107-H38 VT-4	SPRST	ISI-GBC-101-7-H		MS	832064	03/20/92	Y	NRI
GBC10109-H320 VT-3	VAR SUP	ISI-GBC-101-9-H		MS	832065	04/24/92	Y	NRI
GBC10109-H320 VT-4	VAR SUP	ISI-GBC-101-9-H		MS	832065	04/24/92	Y	NRI
MST0221-H10 VT-3	VAR SUP	ISI-VNB-B21-1-H		MS	832066	04/16/92	Y	NRI
MST0221-H10 VT-4	VAR SUP	ISI-VNB-B21-1-H		MS	832066	04/16/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SPRNG ITEM: F-SPR

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
MST0221-H6 VT-3	VAR SUP	ISI-VNB-B21-1-H		MS	832067 92-123	05/06/92	Y	VISUAL REWORK
MST0221-H6 VT-4	VAR SUP	ISI-VNB-B21-1-H		MS	832067 92-123	05/06/92	Y	VISUAL REWORK
DCA1111-H2 VT-3	SPRST	ISI-DCA-111-1-H		RHR A	492056	05/06/92	Y	NRI
DCA1111-H2 VT-4	SPRST	ISI-DCA-111-1-H		RHR A	492056 92-075	05/06/92	Y	VISUAL ACCPT
DCA1112-H7 VT-3	CONST SUP	ISI-DCA-111-2-H		RHR A	492057	03/30/92	Y	NRI
DCA1112-H7 VT-4	CONST SUP	ISI-DCA-111-2-H		RHR A	492057	03/30/92	Y	NRI
GBB1042-H1 VT-3	SPRST	ISI-GBB-104-2-H		RHR A	492058	05/06/92	Y	NRI
GBB1042-H1 VT-4	SPRST	ISI-GBB-104-2-H		RHR A	492058 92-057	05/06/92	Y	VISUAL ACCPT
GBB1062-H20 VT-3	VAR SUP	ISI-GBB-106-2-H		RHR B	492059	03/07/92	Y	NRI
GBB1062-H20 VT-4	VAR SUP	ISI-GBB-106-2-H		RHR B	492059	03/07/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SPRNG ITEM: F-SPR

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
GBB1072-H14 VT-3	VAR SUP	ISI-GBB-107-2-H		RHR B	492060	04/02/92	Y	NRI
GBB1072-H14 VT-4	VAR SUP	ISI-GBB-107-2-H		RHR B	492060	04/02/92	Y	NRI
GBB1091-H16 VT-3	VAR SUP	ISI-GBB-109-1-H		RHR B	492061	03/07/92	Y	NRI
GBB1091-H16 VT-4	VAR SUP	ISI-GBB-109-1-H		RHR B	492061	03/07/92	Y	NRI
GBB1092-H3 VT-3	SPRST	ISI-GBB-109-2-H		RHR A	492062	04/24/92	Y	NRI
GBB1092-H3 VT-4	SPRST	ISI-GBB-109-2-H		RHR A	492062 92-036	04/24/92	Y	VISUAL REWORK
HBB1101-H5 VT-3	VAR SUP	ISI-HBB-110-1-H		RHR A	492063	04/16/92	Y	NRI
HBB1101-H5 VT-4	VAR SUP	ISI-HBB-110-1-H		RHR A	492063	04/16/92	Y	NRI
HBB1103-H24 VT-3	VAR SUP	ISI-HBB-110-3-H		RHR A	492021	04/16/92	Y	NRI
HBB1103-H24 VT-4	VAR SUP	ISI-HBB-110-3-H		RHR A	492021	04/16/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SPRNG ITEM: F-SPR

CID EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION
HRC1123-H17 VT-3	VAR SUP	ISI-HRC-112-3-H		RHRSW A	162003	03/20/92	Y	NRI
HRC1123-H17 VT-4	VAR SUP	ISI-HRC-112-3-H		RHRSW A	162003	03/20/92	Y	NRI
RWS1001-HA6 VT-3	CONST SUP	ISI-VRR-B31-1-H		RR A	642068 92-074	05/08/92	Y	VISUAL REWORK
RWS1001-HA6 VT-4	CONST SUP	ISI-VRR-B31-1-H		RR A	642068	05/08/92	Y	NRI
RWS1002-HB4 VT-3	VAR SUP	ISI-VRR-B31-2-H		RR B	642069	04/01/92	Y	NRI
RWS1002-HB4 VT-4	VAR SUP	ISI-VRR-B31-2-H		RR B	642069	04/01/92	Y	NRI
DBA1012-H18 VT-3	VAR SUP	ISI-DBA-101-2-H		RWCU	612018	04/03/92	Y	NRI
DBA1012-H18 VT-4	VAR SUP	ISI-DBA-101-2-H		RWCU	612018	04/03/92	Y	NRI
SPDCA1022-H21 VT-3	CONST SUP	ISI-SP-DCA-102-2-H		RWCU	612019	04/05/92	Y	NRI
SPDCA1022-H21 VT-4	CONST SUP	ISI-SP-DCA-102-2-H		RWCU	612019	04/05/92	Y	NRI

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
LIST OF EXAMS - SIXTH REFUELING OUTAGE

OUTAGE SUMMARY REPORT - SORTED BY CODE CATEGORY AND ITEM - - AS OF: 07/24/92

CODE CATEGORY: SPRNG ITEM: F-SPR

CID / EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM / LOOP	EXAM NO / NCR NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION / RESOLUTION
SPDCA1064-H24 VT-3	VAR SUP	ISI-SP-DCA-106-4-H		SBLC	532004	04/02/92	Y	NRI
SPDCA1064-H24 VT-4	VAR SUP	ISI-SP-DCA-106-4-H		SBLC	532004	04/02/92	Y	NRI

TALLY ITEM F-SPR 52
TALLY CDECAT SPRNG 52

TOTAL: 889

SNUBBER FUNCTIONAL TESTING LISTING

UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBA 101H 8 RWCU SUCT.INSIDE CONT.	03577	3	C	92-085	03/26/92	919	PASS	C/S AF 3.5 AR 2 3/4	04/01/92
DBA 101H 9 RWCU SUCT.INSIDE CONT.	03594	3	C		03/26/92 PP 3'-10 1/2"	1124	PASS	C/S AF 1 AR 1	04/01/92
DBA 101H 10 RWCU SUCT.INSIDE CONT.	03570	3	C		03/26/92 PP 4'-7 3/8"	1055	PASS	C/S AF 2.75 AR 2.75	04/01/92
DBA 101H 15 RWCU SUCT.INSIDE CONT.	19514	3	C		03/26/92 PP 4'-7 1/2"	1	PASS	C/S AF 2 1/2 AR 2 1/2	04/01/92
DBA 101H 19 RWCU SUCT.INSIDE CONT.	04583	3	C		03/25/92	2205	PASS	C/S AF 3 AR 3	03/30/92
DBA 101H 20 RWCU SUCT.INSIDE CONT.	19392	3	C	92-085	03/25/92	2133	PASS	C/S AF 2 1/2 AR 2 1/2	03/30/92
DBA 101H 21 RWCU SUCT.INSIDE CONT.	04571	3	C		03/25/92	2332	PASS	C/S AF 2 AR 2	03/30/92
DBA 101H 35 RWCU SUCT.INSIDE CONT.	04144	3			X PP 3'-4 1/4"	0			X
DBA 101H 36 RWCU SUCT.INSIDE CONT.	05254	3			X PP 2'-10 1/2"	0			X
DBA 101H 40 RWCU SUCT.INSIDE CONT.	00108	.05	S		03/28/92 PP 2'-11"	819	PASS	C/S AF 3 15/16 AR 3 15/16	04/01/92
DBA 101H 46 RWCU SUCT.INSIDE CONT.	20788	1			03/13/92 PP 5'-1 7/8"	922	PASS	C/S AF 2" AR 2"	05/09/92
DBA 101H 47A RWCU SUCT.INSIDE CONT.	00318	3L			X PP 3'-8 3/8"	0			X
DBA 101H 47B RWCU SUCT.INSIDE CONT.	00317	3L			X PP 3'-8 1/2"	0			X

LEGEND

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N = NCR, F = PREVIOUS FAILURE, B = REBUILT SNUBBER, C = SPECIAL CASE

UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBA 102H 6	00101	.12			X	0			X
HPCI STM SUPPLY INSIDE					PP 5'-2"				
DBA 102H 7	00102	.12			X	0			X
HPCI STM SUPPLY INSIDE					PP 3'-6 1/2"				
DBA 102H 8	02760	35			04/16/92	1029	PASS		Z
HPCI STM SUPPLY INSIDE					CLMP RMVD,P/P6'-7" C/S AF 1 1/2 AR 1 1/2				
DBA 102H 9	04115	35			04/06/92	1519	PASS		Z
HPCI STM SUPPLY INSIDE					CLMP RMVD,P/P-4'6" C/S AF 3 1/4 AR 3 1/4				
DBA 102H 10	01361	35			X	0			X
HPCI STM SUPPLY INSIDE					PP 6'-9 1/2"				
DBA 102H 11	02561	35	S		03/26/92	2100	PASS		Z
HPCI STM SUPPLY INSIDE					CLAMP REMOVED,P/P-4'0" C/S AF 3 AR 3				
DBA 102H 12	03234	35			X	0			X
HPCI STM SUPPLY INSIDE									
DBA 102H 13	04106	35			04/10/92	825	PASS		Z
HPCI STM SUPPLY INSIDE					CLAMP REMOVED C/S AF 1 3/4 AR 1 3/4				
DBA 105H 4A	02815	10			X	0			X
RCIC STM SUPPLY INSIDE									
DBA 105H 4B	12267	10			X	0			X
RCIC STM SUPPLY INSIDE									
DBA 105H 6A	06827	3			X	0			X
RCIC STM SUPPLY INSIDE									
DBA 105H 6B	06826	3			X	0			X
RCIC STM SUPPLY INSIDE									
DBA 105H 7	03180	10			X	0			X
RCIC STM SUPPLY INSIDE					PP 3'-2 1/4"				

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBA 105H 8 RCIC STM SUPPLY INSIDE	04616	10	F		03/24/92 P/P-4'11"	1346	PASS C/S AF 2 1/2 AR 2 1/2		Z
DBA 105H 9 RCIC STM SUPPLY INSIDE	14775	10	S		03/24/92 P/P-3'2"	1442	PASS C/S AF 4 1/4 AR 4 1/4		Z
DBA 105H 10 RCIC STM SUPPLY INSIDE	02160	10			03/24/92 P/P-3'0"	1452	PASS C/S AF 2 1/2 AR 2 1/2		Z
DBA 105H 11 RCIC STM SUPPLY INSIDE	14430	10			X	0			X
DBA 105H 13 RCIC STM SUPPLY INSIDE	14428	10	S		03/25/92	849	PASS C/S AF 3 AR 3		04/01/92
DBA 105H 16 RCIC STM SUPPLY INSIDE	00105	.05			X PP 2'-11 3/4"	0			X
DBA 105H 17 RCIC STM SUPPLY INSIDE	00106	.05			X PP 3'-3 1/2"	0			X
DBA 108H 1 MAIN STM LINE DRNS INSIDE CONT	06573	3			03/25/92 CHANG/STRUT,P/P-3'6"C/S AF 3 5/8 AR3 5/8	1124	PASS		Z
DBA 108H 2 MAIN STM LINE DRNS INSIDE CONT	06571	3			X	0			X
DBA 108H 3 MAIN STM LINE DRNS INSIDE CONT	06574	3	S		03/23/92 CHNGTOSTRT,P/P-3'6"C/S AF 2 1/4 AR 2 1/4	1550	PASS		Z
DBA 108H 5 MAIN STM LINE DRNS INSIDE CONT	19565	3			X	0			X
DBA 108H 6 MAIN STM LINE DRNS INSIDE CONT	06584	3	S		03/23/92 CHANGED TO STRUT C/S AF 2 1/2" AR 2 1/2"	1648	PASS		Z
DBA 108H 8 MAIN STM LINE DRNS INSIDE CONT	04282	10	S		03/24/92 CHNG TO STRT P/P-3'0" C/S AF 2 AR 1 1/2	1405	PASS		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBA 108H 9	04277	10		92-085	03/24/92	1621	PASS		Z
MAIN STM LINE DRNS INSIDE CONT					CHNG TO STRT,P/P-4'11" C/S AF 2 1/2 AR 1				
DBA 108H 10	04606	3	F		03/25/92	1019	PASS		Z
MAIN STM LINE DRNS INSIDE CONT								C/S AF 3 AR 3	
DBA 108H 12	06588	3	S		03/23/92	1422	PASS		Z
MAIN STM LINE DRNS INSIDE CONT					P/P-4'0"		C/S AF 2 3/4" AR 2 3/4"		
DBA 108H 15	06796	3			03/25/92	924	PASS		Z
MAIN STM LINE DRNS INSIDE CONT								C/S AF 3 AR 3	
DBA 108H 17	06801	3			X	0			X
MAIN STM LINE DRNS INSIDE CONT					PP 3'-10 3/4"				
DBA 108H 19	03483	3			04/02/92	1357	PASS		Z
MAIN STM LINE DRNS INSIDE CONT					CHANGED TO STRUT			C/S AF 2.5 AR 2.5	
DBA 108H 20	14181	10			X	0			X
MAIN STM LINE DRNS INSIDE CONT									
DBA 108H 21	23020	1/4			03/20/92	22	PASS		Z
MAIN STM LINE DRNS INSIDE CONT								C/S AF 2 1/2 AR 2 1/2	
DBB 101H 3	01366	35			X	0			X
MAIN STEAM OUTSIDE CONT					PP 3'-11"				
DBB 101H 5A	00372	10			X	0			X
MAIN STEAM OUTSIDE CONT					PP 4'-7 1/2"				
DBB 101H 5B	00373	10			X	0			X
MAIN STEAM OUTSIDE CONT					PP 4'-7 1/2"				
DBB 101H 8A	00588	35			X	0			X
MAIN STEAM OUTSIDE CONT									
DBB 101H 8B	07406	35			X	0			X
MAIN STEAM OUTSIDE CONT									

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 101H 10A MAIN STEAM OUTSIDE CONT	00670	100	F	92-045	03/14/92 PP 5'-10 3/4"	819	DEGRADE C/S AF 3.5 AR 3.5	00670	03/20/92
DBB 101H 10B MAIN STEAM OUTSIDE CONT	02026	100	S	92-071 92-045	03/14/92 PP 5'-10 3/4"	859	PASS C/S AF 4.5 AR 4.5		03/20/92
DBB 101H 12 MAIN STEAM OUTSIDE CONT	08706	10			X	0			X
DBB 101H 13 MAIN STEAM OUTSIDE CONT	02027	100	R	92-054	03/16/92 NCR 92-054	1055	PASS C/S AF 4 15/16 AR 4 15/16		04/29/92
DBB 102H 4A MAIN STEAM OUTSIDE CONT	14781	10			X	0			X
DBB 102H 4B MAIN STEAM OUTSIDE CONT	14758	10			X	0			X
DBB 102H 7A MAIN STEAM OUTSIDE CONT	00589	35			X	0			X
DBB 102H 7B MAIN STEAM OUTSIDE CONT	00579	35			X	0			X
DBB 102H 9A MAIN STEAM OUTSIDE CONT	00380	10		92-157	X PP 4'-6 3/4",INTRNL TORQUE BROKE PER ENG	0		04609-78	05/07/92
DBB 102H 9B MAIN STEAM OUTSIDE CONT	00379	10			X PP4'-6 3/4"	0			X
DBB 102H 10 MAIN STEAM OUTSIDE CONT	03088	35			X	0			X
DBB 102H 12A MAIN STEAM OUTSIDE CONT	01529	35		92-150	X PP 6'-9 5/8"	0			X
DBB 102H 12B MAIN STEAM OUTSIDE CONT	01520	35			X PP 6'-10 1/8"	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 102H 13A MAIN STEAM OUTSIDE CONT	01263	100			X	0			X
DBB 102H 13B MAIN STEAM OUTSIDE CONT	01265	100			X	0			X
DBB 102H 15 MAIN STEAM OUTSIDE CONT	00378	10			X	0			X
DBB 102H 17 MAIN STEAM OUTSIDE CONT	01646	100	R	92-045	03/14/92 PP 6'-1 1/2"	1316	PASS C/S AF 4 3/8 AR 4 3/8		04/29/92
DBB 103H 4A MAIN STEAM OUTSIDE CONT	00954	10			X PP 4' 7 3/4"	0			X
DBB 103H 4B MAIN STEAM OUTSIDE CONT	14204	10			X PP 4'-7 3/4"	0			X
DBB 103H 7A MAIN STEAM OUTSIDE CONT	00583	35			X	0			X
DBB 103H 7B MAIN STEAM OUTSIDE CONT	00573	35			X	0			X
DBB 103H 8A MAIN STEAM OUTSIDE CONT	02861	3			X PP 4'-9 5/8"	0			X
DBB 103H 8B MAIN STEAM OUTSIDE CONT	19582	3			X PP 4'-9 5/8"	0			X
DBB 103H 10A MAIN STEAM OUTSIDE CONT	08628	35			X PP 4'-8 1/4"	0			X
DBB 103H 10B MAIN STEAM OUTSIDE CONT	08635	35			X PP 4'-8 1/4"	0			X
DBB 103H 12A MAIN STEAM OUTSIDE CONT	01266	100			X	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 103H 12B MAIN STEAM OUTSIDE CONT	01264	100			X	0			X
DBB 103H 13A MAIN STEAM OUTSIDE CONT	01391	35			X	0			X
DBB 103H 13B MAIN STEAM OUTSIDE CONT	01394	35			X	0			X
DBB 103H 15 MAIN STEAM OUTSIDE CONT	14772	10			X	0			X
DBB 104H 3 MAIN STEAM OUTSIDE CONT	00321	35L			X	0			X
DBB 104H 5A MAIN STEAM OUTSIDE CONT	04566	10			X PP 3'-11 1/2"	0			X
DBB 104H 5B MAIN STEAM OUTSIDE CONT	04256	10			X PP 3'-11 5/16"	0			X
DBB 104H 7A MAIN STEAM OUTSIDE CONT	01247	35			X	0			X
DBB 104H 7B MAIN STEAM OUTSIDE CONT	00590	35			X	0			X
DBB 104H 9 MAIN STEAM OUTSIDE CONT	00392	10			X	0			X
DBB 104H 10 MAIN STEAM OUTSIDE CONT	02504	10			X	0			X
DBB 104H 12A MAIN STEAM OUTSIDE CONT.	01499	35			X	0			X
DBB 104H 12B MAIN STEAM OUTSIDE CONT.	01497	35			X	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 104H 13A MAIN STEAM OUTSIDE CONT.	01535	35			X	0			X
DBB 104H 13B MAIN STEAM OUTSIDE CONT.	01532	35			X	0			X
DBB 104H 15 MAIN STEAM OUTSIDE CONT.	00108	3L	F	92-055	03/10/92	1056	PASS	C/S AF 5.5 AR 5.5	03/19/92
DBB 104H 16A MAIN STEAM OUTSIDE CONT.	08291	10			X	0			X
DBB 104H 16B MAIN STEAM OUTSIDE CONT.	14409	10			X	0			X
DBB 104H 18 MAIN STEAM OUTSIDE CONT.	02422	100	F	92-045	03/14/92 PP 6'-2"	1105	PASS	C/S AF 4 5/8 AR 4 5/8	03/19/92
DBB 105H 2 BYPASS STM EFFECTING MN STM	00364	100		92-048	X	0			X
DBB 105H 5 BYPASS STM EFFECTING MN STM	00400	10L			X	0			X
DBB 105H 9 BYPASS STM EFFCTING BYPASS STM	03036	35			X PP 6'-8 1/2"	0			X
DBB 107H 1 DIV I LPCI/SDC RHR	04570	10			X PP 3'-7 3/4"	0			X
DBB 107H 2A DIV I LPCI/SDC RHR	02551	35			X	0			X
DBB 107H 2B DIV I LPCI/SDC RHR	02554	35			X	0			X
DBB 107H 6 DIV I LPCI/SDC RHR	03246	35			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 107H 8A DIV II LPCI/SDC RHR	06025	35			X	0			X
DBB 107H 8B DIV II LPCI/SDC RHR	06027	35			X	0			X
DBB 107H 9A DIV II LPCI/SDC RHR	02600	35			X	0			X
DBB 107H 9B DIV II LPCI/SDC RHR	02596	35			X	0			X
DBB 107H 13 DIV II LPCI/SDC RHR	00367	100			X	0			X
DBB 109H 7 RCIC STM SUPPLY OUTSIDE	17232	1			X PP 2'-10 15/16"	0			X
DBB 109H 12 RCIC STM SUPPLY OUTSIDE	00127	1L			X	0			X
DBB 109H 15 RCIC STM SUPPLY OUTSIDE	00135	1L			X	0			X
DBB 109H 16 RCIC STM SUPPLY OUTSIDE	07330	3			X PP 5'-11 3/16"	0			X
DBB 109H 17 RCIC STM SUPPLY OUTSIDE	07167	3			03/31/92	1448	PASS C/S AF 1 1/8 AR 1 1/8		04/07/92
DBB 109H 18 RCIC STM SUPPLY OUTSIDE	07166	3			03/31/92	1513	PASS C/S AF 1 1/8 AR 1 1/8		04/07/92
DBB 109H 21 RCIC STM SUPPLY OUTSIDE	00139	.05			X PP 3'-3"	0			X
DBB 109H 22 RCIC STM SUPPLY OUTSIDE	00104	.05			X PP 3'-3"	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 109H 24 RCIC STM SUPPLY	12203	1	OUTSIDE		X PP 2'-2 1/4"	0			X
DBB 109H 25 RCIC STM SUPPLY	02805	3	OUTSIDE		X PP 1'-7 3/8"	0			X
DBB 109H 26A RCIC STM SUPPLY	28837	1/4	OUTSIDE		X PP 1'-9 3/4"	0			X
DBB 109H 26B RCIC STM SUPPLY	28980	1/4	OUTSIDE		X PP 1'-9 3/4"	0			X
DBB 114H 3 HPCI STM SUPPLY	02808	35	OUTSIDE		X PP 6'-4"	0			X
DBB 114H 4 HPCI STM SUPPLY	02826	10	OUTSIDE		X	0			X
DBB 114H 10 HPCI STM SUPPLY	02644	3	OUTSIDE		X PP 4'-0 1/8"	0			X
DBB 114H 25 HPCI STM SUPPLY	00104	.12	OUTSIDE		X PP 3'-7 1/4"	0			X
DBB 114H 26 HPCI STM SUPPLY	00103	.12	OUTSIDE		X PP 3'-7 1/4"	0			X
DBB 114H 27 HPCI STM SUPPLY	00105	.12	OUTSIDE		X	0			X
DBB 114H 28 HPCI STM SUPPLY	00107	.05	OUTSIDE		X	0			X
DBB 114H 29 HPCI STM SUPPLY	02061	1	OUTSIDE		X PP 2'-10 1/4"	0			X
DBB 117H 2 HPCI PUMP DSCH	14193	10			X PP 4'-4"	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 117H 5 HPCI PUMP DSCH	08707	10			X	0			X
DBB 117H 8 HPCI PUMP DSCH	08708	10			X	0			X
DBB 120H 2 HPCI PUMP DSCH	03218	35			X	0			X
DBB 120H 3 HPCI PUMP DSCH	13664	10			X PP 5'-7 3/4"	0			X
DBB 120H 8 HPCI PUMP DSCH	04358	10			X	0			X
DBB 120H 17A HPCI PUMP DSCH	02825	3			X PP 2'-7 1/4"	0			X
DBB 120H 17B HPCI PUMP DSCH	02824	3			X PP 2'-7 1/4"	0			X
DBB 120H 18 HPCI PUMP DSCH	08292	10			X	0			X
DBB 120H 19 HPCI PUMP DSCH	03475	10			X PP 3'-9"	0			X
DBB 120H 21 HPCI PUMP DSCH	07533	10			X PP 5'-1/2"	0			X
DBB 120H 22 HPCI PUMP DSCH	03226	35			X	0			X
DBB 120H 23 HPCI PUMP DSCH	07528	35			X	0			X
DBB 120H 24 HPCI PUMP DSCH	06960	35			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBB 120H 25 HPCI PUMP DSCH	02965	35			X PP 3'-9 5/8"	0			X
DBB 120H 27 HPCI PUMP DSCH	03483	35			X	0			X
DBB 120H 28 HPCI PUMP DSCH	14774	10			X	0			X
DBB 120H 29 HPCI PUMP DSCH	14792	10			X PP 3'-7 1/8"	0			X
DBB 121H 19 RCIC PUMP DSCH	02168	3			X	0			X
DBB 122H 1 RWCU RETURN EFFECTING FW	06816	3			X	0			X
DBB 122H 3 RWCU RETURN EFFECTING FW	07336	3			X	0			X
DBB 122H 24 RWCU RETURN NONEFFECTING FW	14789	10			X	0			X
DBB 122H 28A RWCU RETURN NONEFFECTING FW	00288	3L			X	0			X
DBB 122H 28B RWCU RETURN NONEFFECTING FW	00289	3L			X	0			X
DBC 101H 14 RWCU SUCT OUTSIDE CONT	02802	3	S		03/19/92 PP 5'-3 1/2"	822	PASS	C/S AF 2.5 AR 2.5	03/20/92
DBC 101H 17 RWCU SUCT OUTSIDE CONT	00360	3L			X	0			X
DBC 101H 18 RWCU SUCT OUTSIDE CONT	17222	1	S		03/19/92 PP 1'-10 1/2"	1034	PASS	C/S AF 1.5 AR 1.5	03/20/92

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBC 102H 17	03626	1	S		03/19/92	1300	PASS		03/20/92
RWCU RETURN NONEFFECTING FW					PP 4'-11"			C/S AF 1.5 AR 1.5	
DBD 101H 36A	01185	35			X	0			X
FW RFP 'C' DISCHARGE									
DBD 101H 36B	01170	35			X	0			X
FW RFP 'C' DISCHARGE									
DBD 101H 38	08605	35			X	0			X
FW RFP 'C' DISCHARGE					PP 4'-9 3/4"				
DBD 101H 40	01177	35			X	0			X
FW RFP 'C' DISCHARGE									
DBD 101H 41	00149	100			X	0			X
FW COMMON DISCHARGE					PP 14'-5 1/4"				
DBD 101H 46	08638	35			X	0			X
FW RFP 'A' DISCHARGE					PP 8'-3 1/4"				
DBD 101H 48	13396	10			X	0			X
FW RFP 'A' DISCHARGE									
DBD 101H 52	02798	35			X	0			X
FW RFP 'B' DISCHARGE					PP 5'-7 1/8"				
DBD 101H 53A	08632	35			X	0			X
FW RFP 'B' DISCHARGE					PP 6'-4 7/8"				
DBD 101H 53B	08633	35			X	0			X
FW RFP 'B' DISCHARGE					PP 6'-4 1/2"				
DBD 101H 58	02593	35			X	0			X
FW RFP 'B' DISCHARGE					PP 5'-5 1/8"				
DBD 101H 59A	02132	3			X	0			X
FW RFP 'B' DISCHARGE									

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBD 101H 59B FW RFP 'B' DISCHARGE	02109	3			X	0			X
DBD 101H 61A FW RFP 'C' DISCHARGE	01514	35			X PP 6'-2 3/4"	0			X
DBD 101H 61B FW RFP 'C' DISCHARGE	01515	35			X PP 6'-2 3/4"	0			X
DBD 101H 62A FW RFP 'C' DISCHARGE	00453	100			X	0			X
DBD 101H 62B FW RFP 'C' DISCHARGE	00274	100			X	0			X
DBD 101H 63A FW RFP 'B' DISCHARGE	13765	10			X	0			X
DBD 101H 63B FW RFP 'B' DISCHARGE	01220	10			X PP 3'-1 5/8"	0			X
DBD 101H 65 FW RFP 'B' DISCHARGE	01170	10			X	0			X
DBD 101H 66 FW RFP 'A' DISCHARGE	00389	10			X PP 4'-10 3/4"	0			X
DBD 101H 68A FW RFP 'A' DISCHARGE	02583	35			X PP 5'-3 1/2"	0			X
DBD 101H 68B FW RFP 'A' DISCHARGE	02572	35			X PP 4'-1 1/2"	0			X
DBD 101H 69 FW RFP 'A' DISCHARGE	00900	35			X PP 5'-11"	0			X
DBD 101H 74A FW RFP 'A' DISCHARGE	01230	35			X PP 6'-1 1/2"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBD 101H 74B FW RFP 'A' DISCHARGE	01269	35			X PP 8'-2 5/16"	0			X
DBD 101H 75 FW RFP 'A' DISCHARGE	06932	35			X	0			X
DBD 101H 94 FW COMMON DISCHARGE	08622	35			X PP 9'-6"	0			X
DBD 105H 3A FW COMMON DISCHARGE	06026	35			X PP 8'-6 1/8"	0			X
DBD 105H 3B FW COMMON DISCHARGE	02636	35			X PP 4'-10 5/8"	0			X
DBD 105H 7 FW COMMON DISCHARGE	08623	35			X PP 5'-3"	0			X
DBD 105H 10 FW COMMON DISCHARGE	01169	10			X PP 3'-1"	0			X
DBD 105H 11A FW COMMON DISCHARGE	01153	10			X	0			X
DBD 105H 11B FW COMMON DISCHARGE	01157	10			X	0			X
DBD 105H 13 FW COMMON DISCHARGE	16845	1			X PP 2'-3"	0			X
DBD 105H 16A FW COMMON DISCHARGE	08557	10			X	0			X
DBD 105H 16B FW COMMON DISCHARGE	14785	10			X	0			X
DBD 105H 17 FW COMMON DISCHARGE	02510	1			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DBD 105H 18 FW COMMON DISCHARGE	21559	1			X PP 2'-9 1/2"	0			X
DBD 106H 2 FW COMMON DISCHARGE	01370	35			X	0			X
DBD 106H 3 FW COMMON DISCHARGE	09451	35			X PP 6'-2 1/4"	0			X
DBD 106H 4 FW TURB BLDG	00307	3L			X PP 3'-10 1/2"	0			X
DBD 106H 5A FW TURB BLDG	02110	10			X PP 4"-6 1/2"	0			X
DBD 106H 5B FW TURB BLDG	08486	10			X PP 4'-7 1/4"	0			X
DCA 102H 2A RECIRC/RWCU COMMON SUCT.	06818	3			03/28/92	1801	PASS C/S AF 1 3/4 AR 1 3/4		Z
DCA 102H 2B RECIRC/RWCU COMMON SUCT.	06817	3			X DCA102H2A ELIMINATED PP 1'-10 1/4"	0			X
DCA 102H 3 RECIRC/RWCU COMMON SUCT.	06583	3		92-089	03/29/92	239	FAIL	07227-79 C/S AF 2 AR 2	04/07/92
DCA 102H 4A RECIRC/RWCU COMMON SUCT.	06797	3		92-089	03/28/92 P/P-2'8"	1112	PASS C/S AF 1 5/8 AR 1 5/8		Z
DCA 102H 4B RECIRC/RWCU COMMON SUCT.	25302	3		92-089	03/28/92 P/P-2'8"	1138	PASS	C/S AF 3 AR 3	Z
DCA 102H 6 RECIRC/RWCU DIV 1 SUCT	03649	3	S		03/21/92 P/P-5'0"	735	PASS	C/S AF 2 AR 2	Z
DCA 102H 7 RECIRC/RWCU DIV 1 SUCT.	03640	3	R	92-061	03/18/92 PP 3'-8 1/4"	1556	PASS C/S AF 2 7/8 AR 2 7/8		03/20/92

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 102H 9A RECIRC/RWCU DIV 1 SUCT	04569	3	S		03/20/92	1347	PASS	C/S AF 3 AR 3	Z
DCA 102H 9B RECIRC/RWCU DIV 1 SUCT.	06799	3	S		03/20/92	900	PASS	C/S AF 2 AR 2	Z
DCA 103H 10 RWCU SUCT INSIDE CONT.	06794	3	S		03/31/92 WA#Y10869	849	PASS	C/S AF 2.75 AR 2.75	04/07/92
DCA 107H 7 CORE SPRAY 'A' LOOP DISCH	06942	35			X	0			X
DCA 107H 12 CORE SPRAY 'B' LOOP DISCH	02602	35			X PP 4'-4 1/2"	0			X
DCA 107H 15 CORE SPRAY 'A' LOOP DISCH	03230	35			X	0			X
DCA 107H 16 CORE SPRAY 'B' LOOP DISCH	00919	35			X	0			X
DCA 108H 4 COMMON LPCI/SDC RECIRC	01303	35			X	0			X
DCA 108H 5 COMMON LPCI/SDC RECIRC	01329	35			X PP 6'-8 3/4"	0			X
DCA 108H 6 COMMON LPCI/SDC RECIRC	02579	35			X PP 6'-8 3/8"	0			X
DCA 108H 7 COMMON LPCI/SDC RECIRC	01325	35			X PP 8'-5 1/2"	0			X
DCA 108H 8 COMMON LPCI/SDC RECIRC	00574	100			03/30/92	916	PASS	C/S AF 1 1/2 AR 1 1/2	Z
DCA 108H 9 COMMON LPCI/SDC RECIRC	00399	100			03/30/92	821	DEGRADE	C/S AF 3 1/8 AR 3 1/8	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 108H 10 COMMON LPCI/SDC RECIRC	01233	35			04/03/92 P/P-4'8"	818	PASS		Z
DCA 108H 11 COMMON LPCI/SDC RECIRC	02610	35			03/28/92 P/P-5'1"	1312	PASS	C/S AF 2 3/4 AR 3	Z
DCA 108H 12 COMMON LPCI/SDC RECIRC	01291	35			03/30/92 P/P-5'0"	744	PASS	C/S AF 4 AR 4	Z
DCA 109H 6 CORE SPRAY 'A' LOOP DISCH	00915	35			X PP 4'-1/2"	0			X
DCA 109H 7 CORE SPRAY 'A' LOOP DISCH	00914	35			X PP 6'-5 3/4"	0			X
DCA 109H 9 CORE SPRAY 'B' LOOP DISCH	00887	35			X PP 4'-0"	0			X
DCA 109H 10 CORE SPRAY 'B' LOOP DISCH	00882	35			X PP 6'-4 3/8"	0			X
DCA 110H 9 DIV I LPCI/SDC RECIRC	02624	35		92-085	03/20/92 CLAMP REMOVED,P/P-6'0"	911	PASS	C/S AF 1" AR 1"	Z
DCA 110H 10 DIV I LPCI/SDC RECIRC	01355	35			X	0			X
DCA 110H 11 DIV I LPCI/SDC RECIRC	01297	35			03/22/92 CLMP RMVD,P/P-8'6".	1028	PASS	C/S AF 3.25 AR 3.25	Z
DCA 110H 12 DIV I LPCI/SDC RECIRC	01498	35		92-085	03/2/192 CLMP RMVD,P/P-4'8",	842	PASS	C/S AF 2" AR 2"	Z
DCA 110H 13 DIV I LPCI/SDC RECIRC	02555	35			03/21/92 CLAMP REMOVED	812	PASS	C/S AF 2 1/2" AR 2 1/2"	Z
DCA 110H 14 DIV I LPCI/SDC RECIRC	02585	35		92-085	03/21/92 CLAMP REMOVED,P/P-6'10"	1333	PASS	C/SAF2 3/8AR 1/2"	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 110H 15	01636	100			04/04/92	1451	PASS		Z
COMMON LPCI/SDC RECIRC					CLAMP REMOVED			C/S AF 3.5 AR 3.5	
DCA 110H 16	01640	100			03/28/92	1409	PASS		Z
COMMON LPCI/SDC RECIRC					CLAMP REMOVED,P/P-6'0"			C/S AF 2 3/4 AR 3	
DCA 110H 17	01329	100			03/25/92	1925	PASS		Z
COMMON LPCI/SDC RECIRC					CLMP REMVD,P/P-4'8"C/S			AF 2 1/4 AR 2 1/4	
DCA 110H 18	02850	35			03/25/92	1631	PASS		Z
COMMON LPCI/SDC RECIRC					CLMPREMVD,P/P-7'11"C/S			AF 2 1/2 AR 2 1/2	
DCA 110H 19	01266	35			X	0			X
COMMON LPCI/SDC RECIRC									
DCA 110H 20	01341	35			X	0			X
COMMON LPCI/SDC RECIRC					PP 4'-10 1/2"				
DCA 110H 21	01359	35			X	0			X
COMMON LPCI/SDC RECIRC					PP 6'-10 1/4"				
DCA 110H 22	02580	35			03/28/92	2157	PASS		Z
COMMON LPCI/SDC RECIRC					CLAMP REMOVED			C/S AF 3 3/4 AR 3 3/4	
DCA 110H 23	02662	35			03/28/92	1537	PASS		Z
COMMON LPCI/SDC RECIRC					CLAMP REMOVED			C/S AF 3 1/2 AR 3 1/2	
DCA 110H 24	02603	35			03/28/92	1010	PASS		Z
COMMON LPCI/SDC RECIRC					CLAMP REMOVED,P/P-6'10"C/S			AF 3.5 AR 3.5	
DCA 110H 25	01265	35			03/28/92	2120	PASS		Z
COMMON LPCI/SDC RECIRC					CLAMP REMOVED,P/P-3'10"			C/S AF 3 AR 3	
DCA 110H 26	11027	35			X	0			X
COMMON LPCI/SDC RECIRC									
DCA 110H 27	02568	35			03/26/92	1823	PASS		Z
COMMON LPCI/SDC RECIRC					CLMP REMVD,P/P-5'0"C/S			AF 3 1/2 AR 3 1/2	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 110H 29	01330	100			X	0			X
DIV I LPCI/SDC RECIRC					PP 8'-0"				
DCA 110H 30	02607	35			X	0			X
DIV I LPCI/SDC RECIRC					PP 9'-9 1/16"				
DCA 110H 31	00765	100			03/26/92	841	PASS		Z
DIV I LPCI/SDC RECIRC					CLAMP REMOVED,P/P-6'2"			C/S AF 3 AR 3	
DCA 110H 32	01145	100	F		03/16/92	1749	PASS		03/19/92
DIV I LPCI/SDC RECIRC								C/S AF 1 1/2 AR 1 1/2	
DCA 110H 33	00187	100			03/23/92	817	PASS		Z
DIV I LPCI/SDC RECIRC					CLMP RMVD,P/P-9'4",C/S AF 2 3/8 AR 2 3/8				
DCA 110H 34	01295	35			03/25/92	803	PASS		Z
DIV I LPCI/SDC RECIRC					CLAMP REMOVED,P/P-6'6"			C/S AF 3 AR 3	
DCA 110H 35	02592	35			03/19/92	1324	PASS		Z
DIV I LPCI/SDC RECIRC					CLAMP REMOVED			C/S AF 3" AR 3"	
DCA 110H 36	11019	35			03/21/92	1132	PASS		Z
DIV I LPCI/SDC RECIRC					CLAMP REMOVED,P/P-5'3", C/S AF,AR 2 3/4"				
DCA 111H 8A	03656	3			03/20/92	1257	PASS		Z
RHR HEAD SPRAY SPIDER					WA#Y10873,CLMP REMVD C/S AF 1.5 AR 1.5				
DCA 111H 8B	25283	3			03/20/92	1018	PASS		Z
RHR HEAD SPRAY SPIDER					WA#Y10873,CLMP REMOVED C/S AF,AR 1.25				
DCA 111H 9	19484	10			03/20/92	1042	PASS	01164-77	04/26/92
RHR HEAD SPRAY SPIDER					USE SZ 10FRM DCA111H37B C/SAF,AR1.5WAS 3				
DCA 111H 11	13670	10		92-085	03/19/92	2118	PASS		04/26/92
RHR HEAD SPRAY SPIDER					PP 4'-1/4"			C/S AF 2 AR 2	
DCA 111H 12	02498	10		92-121	X	0			X
RHR HEAD SPRAY									

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 111H 14 RHR HEAD SPRAY	03438	10		92-073	X	0			X
DCA 111H 15 RHR HEAD SPRAY	02820	10	S		04/02/92 CLAMP RMVED,P/P-3'9" C/S AF 3.75 AR 3.75	1447	DEGRADE		Z
DCA 111H 16 RHR HEAD SPRAY	02542	10			04/02/92 CLAMP REMOVED C/S AF 4 AR 4	947	PASS		Z
DCA 111H 17 RHR HEAD SPRAY	13425	10		92-110	04/02/92 CLAMP REMOVED C/S AF 4 AR 4	1142	PASS		Z
DCA 111H 18 RHR HEAD SPRAY	12946	10	R		04/02/92 CLAMP REMOVED C/S AF 2.5 AR 2.5	1044	PASS		Z
DCA 111H 19 RHR HEAD SPRAY	02534	10			04/02/92 CLAMP REMOVED C/S AF 2.25 AR 2.25	1424	PASS		Z
DCA 111H 20 RHR HEAD SPRAY	02477	10	R		04/04/92 CHNG TO STRTS, P/P-4'-2"C/S AF 3.25 AR 3	955	PASS		Z
DCA 111H 21 RHR HEAD SPRAY	02501	10	R		03/13/92 C/S AF 1 1/2" AR 1 1/2"	1058	PASS		Z
DCA 111H 22 RHR HEAD SPRAY	02545	10			04/02/92 C/S AF 1.25 AR 1.25	1120	PASS		Z
DCA 111H 23 RHR HEAD SPRAY	04585	10			04/04/92 CHNG TO STRUT,P/P-3'10" C/S AF 2 AR 1.5	831	PASS		Z
DCA 111H 24 RHR HEAD SPRAY	04586	10			04/04/92 REPLC W/ STRT,P/P-3'3"C/S AF 2.25 AR 2.5	754	PASS		Z
DCA 111H 25 RHR HEAD SPRAY	04587	10			03/13/92 P/P-3'4" C/S AF 2 3/4" AR 2 3/4"	1003	PASS		Z
DCA 111H 26 RHR HEAD SPRAY	04589	10			03/13/92 P/P-3'0" C/S AF 2 1/2" AR 2 1/2"	1032	PASS		Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 111H 28 RHR HEAD SPRAY	19548	3			03/13/92	1144	PASS C/S AF 2 1/2" AR 2 1/2"		Z
DCA 111H 29 RHR HEAD SPRAY	04581	10			X PP 4'-5 7/8"	0			X
DCA 111H 36 RHR HEAD SPRAY	06800	3			04/05/92 CNG TO STR,PP-4'11"C/S AF 1 1/4 AR 1 1/4	748	PASS		Z
DCA 111H 37A RHR HEAD SPRAY SPIDER	00962	10			03/19/92 37B ELIMINATED	2005	PASS C/S AF 2 1/4 AR 2 1/4		04/20/92
DCA 111H 37B RHR HEAD SPRAY SPIDER	01164	10			03/19/92 SNUBBER,CLAMP ON DCA111H9 C/S AF,AR1 1/2	1937	PASS		Z
DCA 111H 38A RHR HEAD SPRAY	02499	10			04/10/92 CHANGE TO SWAY STRUT	1448	PASS C/S AF 4.5 AR 4.5		Z
DCA 111H 38B RHR HEAD SPRAY	19559	3			04/10/92 CHANGE TO SWAY STRUT	1307	PASS C/S AF 3 AR 3		Z
DCA 111H 39A RHR HEAD SPRAY	06807	3			04/10/92 CHANGE TO SWAY STRUT C/S AF 2.25 AR 2.25	1331	PASS		Z
DCA 111H 39B RHR HEAD SPRAY	06806	3			04/10/92	1358	PASS C/S AF 1.5 AR 1.5		Z
DCA 111H 40 RHR HEAD SPRAY	06802	3			X	0			X
DCA 111H 41 RHR HEAD SPRAY	00953	10			04/02/92 CLP RMVD, P/P-5'11" C/S AF 3.75 AR 3.75	1306	PASS		Z
DCA 141H 1 DIV I LPCI/SDC RECIRC	04268	10			03/21/92 P/P-4'6"	906	PASS C/S AF 2 AR 2		Z
DCA 141H 2 DIV I LPCI/SDC RECIRC	04609	10			03/23/92 P/P-3'11"	859	PASS C/S AF 3 AR 3		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DCA 141H 3 DIV I LPCI/SDC RECIRC	12943	10			03/23/92	1021	PASS	C/S AF 2 AR 2	Z
DCA 141H 4 DIV I LPCI/SDC RECIRC	04279	10		92-085	03/23/92 P/P-4'10"	816	PASS	C/S AF 2.25 AR 2.75	Z
DCA 142H 1 COMMON LPCI/SDC RECIRC	12276	10			03/31/92 P/P-4'6"	1016	PASS	C/S AF 2 AR 2	Z
DCA 142H 2 COMMON LPCI/SDC RECIRC	04264	10			03/31/92 P/P-3'4"	801	PASS	C/S AF 3 AR 3	Z
DCA 142H 3 COMMON LPCI/SDC RECIRC	08696	10			03/28/92 CLAMP REMOVED,P/P-4'8"	1940	DEGRADE	C/S AF 1 AR 1	Z
DCA 142H 4 COMMON LPCI/SDC RECIRC	04281	10	R		03/28/92 WA#Y10871,CLMP RMVDC/S AF 3 5/8 AR 3 5/8	1837	PASS		Z
DLA 101H 1 FW INSIDE CONT 'A' LOOP	04109	35			04/13/92	822	PASS	C/S AF 2 1/2 AR 2 1/2	Z
DLA 101H 4 FW INSIDE CONT 'A' LOOP	01574	100			X PP 5'-8 1/2"	0			X
DLA 102H 2 FW INSIDE CONT 'A' LOOP	03236	35			X	0			X
DLA 102H 6 FW INSIDE CONT 'A' LOOP	01794	100			04/15/92 P/P-10'4"	832	FAIL	C/S AF 4 1/4 AR 4 1/4	Z
DLA 102H 7 FW INSIDE CONT 'A' LOOP	03061	35			03/27/92 P/P-6'8"	1331	PASS	C/S AF 2 AR 2	Z
DLA 102H 8A FW INSIDE CONT 'A' LOOP	01618	100	S	92-062	03/27/92 P/P-6'11"	1424	PASS	C/S AF 2 1/4 AR 2	Z
DLA 102H 8B FW INSIDE CONT 'A' LOOP	00536	100	S	92-062 92-045	03/18/92 PP 4'-11 5/8"	900	PASS	C/S AF 3 1/4" AR 3 1/4"	03/23/92

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DLA 102H 9A FW INSIDE CONT 'A' LOOP	02739	35	S	92-045	03/20/92 PP 8'-3 3/4"	737	PASS C/S AF 2" AR 2"		03/23/92
DLA 102H 9B FW INSIDE CONT 'A' LOOP	00796	35	S		03/28/92	1037	PASS C/S AF 2 AR 2		Z
DLA 102H 10 FW INSIDE CONT 'A' LOOP	09486	35			04/10/92	858	PASS C/S AF 1 3/4 AR 1 3/4		Z
DLA 102H 11 FW INSIDE CONT 'A' LOOP	02756	35			X PP 5'-7 3/8"	0			X
DLA 102H 12 FW INSIDE CONT 'A' LOOP	09446	35			X PP 4'-6"	0			X
DLA 102H 13 FW INSIDE CONT 'A' LOOP	01172	35			03/27/92	903	PASS C/S AF 4 1/8 AR 4 1/8		Z
DLA 102H 14 FW INSIDE CONT 'A' LOOP	01356	35			X PP 5'-9 1/8"	0			X
DLA 102H 15 FW INSIDE CONT 'A' LOOP	01096	100			03/17/92 P/P-5'5"	1315	PASS C/S AF 2 1/2" AR 2 1/2"		Z
DLA 103H 3 FW INSIDE CONT 'B' LOOP	12623	35			04/13/92	1109	PASS C/S AF 3 AR 3		Z
DLA 103H 4 FW INSIDE CONT 'B' LOOP	02353	100			X PP 5'-6 1/2"	0			X
DLA 104H 5 FW INSIDE CONT 'B' LOOP	06937	35			04/13/92	1148	PASS C/S AF 5 1/4 AR 4 1/2		Z
DLA 104H 6 FW INSIDE CONT 'B' LOOP	02391	100	F	92-045	03/20/92 PP 10'-1/4"	1308	PASS C/S AF 3 1/8" AR 3 1/8"		03/25/92
DLA 104H 7 FW INSIDE CONT 'B' LOOP	03636	35			04/15/92 P/P-5'10"	1602	PASS C/S AF 2 3/4 AR 2 3/4		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
DLA 104H 8A FW INSIDE CONT 'B' LOOP	02395	100	R		04/15/92 CLAMP REMOVED,P/P-7'0"	1026	PASS C/S AF 3 AR 3		Z
DLA 104H 8B FW INSIDE CONT 'B' LOOP	00541	100	S	92-045	03/19/92 CLMP RMVD,PP 5'-0",C/S AF 2 1/2 AR 2 1/2	1552	PASS		03/25/92
DLA 104H 9A FW INSIDE CONT 'B' LOOP	11017	35	S	92-045	03/19/92 CLAMP REMOVED 8'-5"C/S AF 2 1/2 AR 2 1/2	1020	PASS		03/25/92
DLA 104H 9B FW INSIDE CONT 'B' LOOP	01182	35	S		04/07/92 P/P-7'1",CLMP RMVD C/S AF 2 1/4 AR 2 1/4	821	PASS		Z
DLA 104H 10 FW INSIDE CONT 'B' LOOP	02849	35			04/09/92	1135	PASS C/S AF 1 1/2 AR 1 1/2		Z
DLA 104H 11 FW INSIDE CONT 'B' LOOP	01167	35			X PP 5'-0"	0			X
DLA 104H 12 FW INSIDE CONT 'B' LOOP	02635	35			X PP 4'-4 1/4"	0			X
DLA 104H 13 FW INSIDE CONT 'B' LOOP	01187	35			04/09/92 CLAMP REMOVED	1107	PASS C/S AF 3.25 AR 3.25		Z
DLA 104H 14 FW INSIDE CONT 'B' LOOP	01350	35			X PP 3'-10 3/4"	0			X
DLA 104H 15 FW INSIDE CONT 'B' LOOP	02030	100			04/15/92 WA#Y10874,CMP RMVD,PP5'2"C/S AF,AR 2 1/2	1108	PASS		Z
EBB 102H 4 HPCI PUMP DSCH	13435	1/2			X PP 3'-2 1/2"	0			X
EBB 102H 14 HPCI PUMP DSCH	02616	1			X	0			X
EBB 102H 15 HPCI PUMP DSCH	03476	10			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
EBB 102H 23 HPCI PUMP DSCH	04592	1			X	0			X
EBD 102H 2A BYPASS STM EFCTING BYPASS VLVS	02166	3			X PP 2'-11 5/8"	0			X
EBD 102H 2B BYPASS STM EFCTING BYPASS VLVS	02164	3			X PP 2'-11 7/16"	0			X
EBD 102H 7 BYPASS STM EFCTING BYPASS VLVS	02822	10			X PP 5'-8 3/8"	0			X
EBD 102H 8A BYPASS STM EFCTING BYPASS VLVS	01174	35			X PP 4'-3 5/8"	0			X
EBD 102H 8B BYPASS STM EFCTING BYPASS VLVS	01173	35			X PP 4'-4 1/8"	0			X
EBD 102H 10 BYPASS STM EFCTING BYPASS VLVS	01313	35			X PP 9'-2 1/2"	0			X
EBD 102H 12A BYPASS STM EFCTING BYPASS VLVS	02137	3			X PP 2'-11"	0			X
EBD 102H 12B BYPASS STM EFCTING BYPASS VLVS	02144	3			X PP 2'-11"	0			X
EBD 102H 18A BYPASS STM EFCTING BYPASS VLVS	00624	35			X	0			X
EBD 102H 18B BYPASS STM EFCTING BYPASS VLVS	00631	35			X	0			X
EBD 102H 20 BYPASS STM EFCTING BYPASS VLVS	01314	35			X PP 9'-4 1/4"	0			X
EBD 102H 22A BYPASS STM EFCTING BYPASS VLVS	02185	3			X PP 2'-11 3/4"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
EBD 102H 22B BYPASS STM EFCTING BYPASS VLVS	02189	3			X PP 2'-11 3/4"	0			X
EBD 102H 29 BYPASS STM EFCTING BYPASS VLVS	06951	35			X	0			X
EBD 102H 30 BYPASS STM EFCTING BYPASS VLVS	02081	10			X	0			X
EBD 102H 31A BYPASS STM EFCTING BYPASS VLVS	00577	35			X PP 4'-1/4"	0			X
EBD 102H 31B BYPASS STM EFCTING BYPASS VLVS	00580	35			X PP 4'-1/4"	0			X
EBD 102H 32 BYPASS STM EFCTING BYPASS VLVS	01305	35			X PP 9'-1 7/16"	0			X
EBD 102H 35 BYPASS STM EFCTING BYPASS VLVS	01317	35	S	92-045	03/18/92 PP 8'-5 1/4"	1326	PASS C/S AF 2 7/8 AR 2 7/8		03/21/92
EBD 102H 36A BYPASS STM EFCTING BYPASS VLVS	00960	10			X PP 3'-2 1/4"	0			X
EBD 102H 36B BYPASS STM EFCTING BYPASS VLVS	00959	10			X PP 3'-3"	0			X
EBD 102H 38 BYPASS STM EFCTING BYPASS VLVS	01322	35			X PP 4'-10 7/8"	0			X
EBD 102H 39 BYPASS STM EFCTING BYPASS VLVS	04584	10			X	0			X
EBD 102H 45 BYPASS STM EFCTING BYPASS VLVS	02789	10			X	0			X
EBD 102H 48A BYPASS STM EFCTING BYPASS VLVS	02657	35			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
EBD 102H 48B BYPASS STM EFCTING BYPASS VLVS	02656	35			X	0			X
EBD 102H 52 BYPASS STM EFCTING BYPASS VLVS	02663	35			X PP 9'-2"	0			X
EBD 102H 53A BYPASS STM EFCTING BYPASS VLVS	00636	35			X PP 3'-11 3/4"	0			X
EBD 102H 53B BYPASS STM EFCTING BYPASS VLVS	00626	35			X PP 3'-11 3/4"	0			X
EBD 102H 55A BYPASS STM EFCTING BYPASS VLVS	00805	35			X	0			X
EBD 102H 55B BYPASS STM EFCTING BYPASS VLVS	00804	35		92-084	X	0			X
EBD 102H 62A BYPASS STM EFCTING BYPASS VLVS	06791	3			X PP 3'-3"	0			X
EBD 102H 62B BYPASS STM EFCTING BYPASS VLVS	06793	3			X PP 3'-3"	0			X
EBD 102H 65A BYPASS STM EFCTING BYPASS VLVS	00272	3L			X	0			X
EBD 102H 65B BYPASS STM EFCTING BYPASS VLVS	00273	3L			X	0			X
EBD 102H 66A BYPASS STM EFCTING BYPASS VLVS	00317	10L			X	0			X
EBD 102H 66B BYPASS STM EFCTING BYPASS VLVS	00316	10L			X	0			X
EBD 102H 67 BYPASS STM EFCTING BYPASS VLVS	02737	3	S		03/18/92	800	PASS C/S AF 2 3/8 AR 2 3/8		03/21/92

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
EBD 109H 1 AIR RMVL/CONDS EFFECTING T.S.	02153	1			X	0			X
EBD 109H 2 AIR RMVL/CONDS EFFECTING T.S.	00110	1L			X	0			X
EBD 109H 4 AIR RMVL/CONDS EFFECTING T.S.	19566	3			X	0			X
EBD 110H 15 RFPT EFFECTING MN STM	03519	3			X PP 5'-5 5/8"	0			X
EBD 110H 16 RFPT EFFECTING MN STM	13758	10			X	0			X
EBD 110H 17 RFPT EFFECTING MN STM	03783	3			X PP 5'-6 1/8"	0			X
EBD 110H 18 RFPT EFFECTING MN STM	04592	10			X PP 2'-9 9/16"	0			X
EBD 113H 2A SSE EFFECTING MN STM	06803	3			X	0			X
EBD 113H 2B SSE EFFECEING MN STM	00168	3L			X PP 5'-9 1/2"	0			X
EBD 113H 4 SSE EFFECTING MN STM	00169	3L			X	0			X
EBD 113H 5 SSE EFFECTING MN STM	06440	3			X PP 3'-1 7/8"	0			X
EBD 113H 6 SSE EFFECTING MN STM	12200	1			X PP 2'-7 3/8"	0			X
EBD 113H 7 SSE EFFECTING MN STM	02569	35		92-141	X PP 4'-10 1/8"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
EBD 113H 9 SSE EFFECTING MN STM	00348	3		92-141	X	0			X
EBD 114H 36 MN STM LINE DRN OUTSIDE CONT	02085	10			X	0			X
GBB 101H 17 CORE SPRAY 'B' LOOP DISCH	02520	1			X	0			X
GBB 101H 33 CORE SPRAY 'A' LOOP DISCH	08612	35			X	0			X
GBB 101H 37A CORE SPRAY 'A' LOOP DISCH	13679	10			X	0			X
GBB 101H 37B CORE SPRAY 'A' LOOP DISCH	02128	10			X	0			X
GBB 101H 38 CORE SPRAY 'A' LOOP DISCH	01619	1			X PP 2'-9 5/8"	0			X
GBB 101H 39 CORE SPRAY 'A' LOOP DISCH	03597	1			X PP 2'-10 7/8"	0			X
GBB 101H 40 CORE SPRAY 'B' LOOP DISCH	01636	1			X PP 2'-2 15/16"	0			X
GBB 101H 41 CORE SPRAY 'B' LOOP DISCH	03794	1			X PP 2'-2 15/16"	0			X
GBB 101H 42 CORE SPRAY 'A' LOOP DISCH	04580	10			X	0			X
GBB 102H 23 CORE SPRAY 'B' LOOP DISCH	04030	3			X PP 6'-1 1/2"	0			X
GBB 104H 3 DIV I LPCI/SDC RHR	01517	35			X PP 5'-10"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBB 104H 8 DIV I LPCI.SDC RHR	00552	100			X PP 5'-10 1/8"	0			X
GBB 104H 13 DIV I LPCI/SDC RHR	01097	100			X PP 5'-9 1/8"	0			X
GBB 104H 21 DIV II LPCI/SDC RHR	01490	35			X PP 5'-9 1/2"	0			X
GBB 104H 26 DIV II LPCI/SDC RHR	01378	35			X PP 6'-1 1/2"	0			X
GBB 104H 31 DIV II LPCI/SDC RHR	08646	35			X PP 4'-2"	0			X
GBB 104H 40 DIV II LPCI/SDC RHR	04582	10			X	0			X
GBB 104H 47 DIV I LPCI/SDC RHR	02055	10			X	0			X
GBB 106H 9 DIV I LPCI/SDC RHR	08631	35			X	0			X
GBB 106H 18 DIV II LPCI/SDC RHR	02552	35			X	0			X
GBB 106H 25 DIV I LPCI/SDC RHR	02011	100			X PP 5'-9 1/8"	0			X
GBB 106H 26 DIV II LPCI/SDC RHR	01095	100			X	0			X
GBB 106H 36A DIV I LPCI/SDC RHR	02127	10			X	0			X
GBB 106H 36B DIV I LPCI/SDC RHR	02134	10			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBB 107H 1A DIV II LPCI/SDC RHR	25275	3	R		03/26/92 PP 3'-1"	1019	PASS C/S AF 2.25 AR 2.25		04/01/92
GBB 107H 1B DIV II LPCI/SDC RHR	19475	3	F		03/26/92 PP 3'-1 1/4"	953	PASS C/S AF 1 5/8 AR 1.5		04/01/92
GBB 107H 6 DIV II LPCI/SDC RHR	12962	10			X	0			X
GBB 107H 7A DIV II LPCI/SDC RHR	25309	3			X PP 2'-7 1/2"	0			X
GBB 107H 7B DIV II LPCI/SDC RHR	25263	3			X PP 2'-7 5/8"	0			X
GBB 107H 12 DIV II LPCI/SDC RHR	01150	10			X	0			X
GBB 107H 15A DIV II LPCI/SDC RHR	19576	3			X	0			X
GBB 107H 15B DIV II LPCI/SDC RHR	07024	3			X	0			X
GBB 107H 17 DIV II LPCI/SDC RHR	12944	10			X	0			X
GBB 107H 31 DIV I LPCI/SDC RHR	19513	3	F		03/20/92 PP 2'-10"	748	PASS C/S AF 3 AR 3		03/23/92
GBB 107H 40A DIV II LPCI/SDC RHR	08695	10			X	0			X
GBB 107H 40B DIV II LPCI/SDC RHR	08710	10			X	0			X
GBB 107H 41 DIV II LPCI/SDC RHR	03210	35			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBB 108H 3	02422	1			X	0			X
DIV I LPCI/SDC RHR					PP 2'-6 1/4"				
GBB 109H 11	08223	10			X	0			03/23/92
DIV I LPCI/SDC RHR					PULLED BY NORM				
GBB 109H 17	06578	3			X	0			X
DIV II LPCI/SDC RHR					PP 2'-3 1/4"				
GBB 109H 24	03564	3			X	0			X
DIV I LPCI/SDC RHR					PP 4'-11 1/4"				
GBB 109H 25	03580	3			X	0			X
DIV I LPCI/SDC RHR					PP 3'-7 1/4"				
GBB 109H 29	00889	35			X	0			X
DIV II LPCI/SDC RHR					PP 3'-4"				
GBB 109H 30	03198	35			X	0			X
DIV II LPCI/SDC RHR									
GBB 109H 32	10890	35			X	0			X
DIV II LPCI/SDC RHR					PP 3'-11"				
GBB 109H 33A	03220	35			X	0			X
DIV II LPCI/SDC RHR									
GBB 109H 33B	03475	35			X	0			X
DIV II LPCI/SDC RHR									
GBB 109H 35	12949	10			X	0			X
DIV I LPCI/SDC RHR									
GBB 109H 36	13669	10			X	0			X
DIV I LPCI/SDC RHR									
GBB 109H 37	04600	10			03/18/92	925	PASS		03/23/92
DIV I LPCI/SDC RHR					PP 4'-1 7/8"			C/S AF 3 AR 3	

LEGEND

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBB 109H 38	25301	3			03/18/92	854	PASS	25301	03/23/92
DIV I LPCI/SDC RHR					PP 2'-6 3/8"			C/S AF 2.5 AR 2.5	
GBB 109H 39	12183	1			X	0			X
DIV II LPCI/SDC RHR					PP 2'-2 1/2"				
GBB 109H 40	17225	1			X	0			X
DIV II LPCI/SDC RHR									
GBB 111H 4	18565	1	F		03/18/92	1309	PASS		03/24/92
DIV I LPCI/SDC RHR								C/S AF 2.25 AR 2.25	
GBB 111H 8	19556	3			X	0			X
DIV II LPCI/SDC RHR									
GBB 112H 22	06813	3			X	0			X
DIV II LPCI/SDC RHR					PP 4'-3"				
GBB 112H 23	17218	1			X	0			X
DIV II LPCI/SDC RHR					PP 4'-4 3/4"				
GBB 112H 24	06579	3			X	0			X
DIV II LPCI/SDC RHR					PP 4'-11"				
GBB 113H 2	05002	1	F		03/17/92	1018	PASS		03/20/92
DIV I LPCI/SDC RHR					PP 2'-9 9/16"			C/S AF 2 AR 2	
GBB 114H 1	03574	3			X	0			X
DIV I LPCI/SDC RHR					PP 3'-6 3/8"				
GBB 114H 3	14385	1/2			X	0			X
DIV I LPCI/SDC RHR					PP 2'-1"				
GBB 115H 3	01302	35			X	0			X
DIV I LPCI/SDC RHR									
GBB 115H 15A	11025	35			X	0			X
DIV II LPCI/SDC RHR									

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBB 115H 15B DIV II LPCI/SDC RHR	06961	35			X	0			X
GBB 118H 13 DIV I LPCI/SDC RHR	19532	3	F		03/18/92 PP 3'-5/8"	825	PASS	C/S AF 2.5 AR 2.5	03/20/92
GBB 118H 24A DIV II LPCI/SDC RHR	08703	10			X	0			X
GBB 118H 24B DIV II LPCI/SDC RHR	14768	10			X	0			X
GBC 101H 100 MAIN STEAM 'D' LINE IN CONT	02767	35			04/13/92	747	PASS	C/S AF 2 3/4 AR 2 3/4	Z
GBC 101H 101 MAIN STEAM 'D' LINE IN CONT	02611	35			04/04/92 P/P-5'6"	1117	PASS	C/S AF 2 1/2 AR 2 1/2	Z
GBC 101H 102 MAIN STEAM 'D' LINE IN CONT	03765	35			X	0			X
GBC 101H 103 MAIN STEAM 'D' LINE IN CONT	00933	35	S		03/26/92	2139	PASS	C/S AF 4 3/4 AR 4 3/4	Z
GBC 101H 105 MAIN STEAM 'D' LINE IN CONT	02609	35			04/04/92 P/P-7'9"	1349	PASS	C/S AF 3 AR 3	Z
GBC 101H 106 MAIN STEAM 'D' LINE IN CONT	02617	35			04/04/92 P/P-8'11"	1423	PASS	C/S AF 3 AR 3	Z
GBC 101H 107 MAIN STEAM 'D' LINE IN CONT	01544	35	S	92-087 92-045	03/15/92 PP 7'-0"	850	PASS	C/S AF 3 AR 3	03/20/92
GBC 101H 108 MAIN STEAM 'C' LINE IN CONT	01308	35			03/16/92 P/P-3'9"	1316	PASS	C/S AF 3" AR 3"	Z
GBC 101H 109 MAIN STEAM 'C' LINE IN CONT	01537	35			03/16/92 P/P-6'6"	1935	PASS	C/S AF 3 AR 3	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 110 MAIN STEAM 'C' LINE IN CONT	01257	35			03/14/92 CHANGED TO STRUT	2149	PASS C/S AF 2 3/4 AR 2 3/4		Z
GBC 101H 111 MAIN STEAM 'C' LINE IN CONT	02578	35			03/15/92 CHNG TO STRT,PP-8'5"C/S AF 3 1/2 AR3 1/2	1105	PASS		Z
GBC 101H 112 MAIN STEAM 'C' LINE IN CONT	01504	35			03/14/92 P/P-4'10"	2059	PASS C/S AF 2 1/2 AR 2 1/2		Z
GBC 101H 115 MAIN STEAM 'C' LINE IN CONT	01489	35	S	92-045	03/15/92 PP 3'- 11 1/4"	1431	PASS C/S AF 3 1/2 AR 3 1/2		04/03/92
GBC 101H 116 MAIN STEAM 'C' LINE IN CONT	01534	35			X P/P 5'-3 3/4"	0			X
GBC 101H 117 MAIN STEAM 'C' LINE IN CONT	01384	35			03/14/92 P/P-5'6"	1913	PASS C/S AF 2 AR 2		Z
GBC 101H 119A MAIN STEAM 'C' LINE IN CONT	00911	35			X P/P 5'7 1/2"	0			X
GBC 101H 119B MAIN STEAM 'C' LINE IN CONT	00916	35			X P/P 5'6 3/8"	0			X
GBC 101H 120 MAIN STEAM 'C' LINE IN CONT	01250	35	S		03/15/92	1554	PASS C/S AF 3 1/2 AR 3 1/2		04/03/92
GBC 101H 121 MAIN STEAM 'C' LINE IN CONT	01237	35			03/16/92	1403	PASS C/S AF 2 1/2" AR 2 1/2"		Z
GBC 101H 122 MAIN STEAM 'C' LINE IN CONT	09442	35			X	0			X
GBC 101H 125A MAIN STEAM 'C' LINE IN CONT	00910	35			X P/P 7'1 3/4"	0			X
GBC 101H 125B MAIN STEAM 'C' LINE IN CONT	00879	35			X P/P 7'1 3/4"	0			X

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 126	01241	35			03/15/92	1907	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANGED TO STRUT		C/S AF 2 5/8 AR 2 5/8		
GBC 101H 128	11021	35			03/15/92	1828	PASS		Z
MAIN STEAM 'C' LINE IN CONT							C/S AF 2 1/8 AR 2 1/8		
GBC 101H 129	00883	35			03/15/92	1159	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANGED TO STRUT,P/P-5'8"		C/S AF 3 AR 3		
GBC 101H 130	00920	35			03/31/92	822	PASS		Z
MAIN STEAM 'A' LINE IN CONT					P/P-4'7"		C/S AF 2 1/2 AR 2 1/2		
GBC 101H 131	00921	35			03/31/92	1022	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CNG TO STRT,PP-5'5"C/S AF 2 1/4 AR 2 1/4				
GBC 101H 132	00905	35	S		03/28/92	1337	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CNG TO STRT,P/P-6'1C/S AF 2 3/4 AR 2 3/4				
GBC 101H 134	00886	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 135	00908	35			04/10/92	1356	PASS		Z
MAIN STEAM 'A' LINE IN CONT					P/P-5'9"		C/S AF 1 1/4 AR 1 1/4		
GBC 101H 136	02837	35			03/31/92	1111	PASS		Z
MAIN STEAM 'A' LINE IN CONT					P/P-9'11"		C/S AF 3 1/2 AR 3 1/2		
GBC 101H 137A	04579	10	S		03/14/92	1554	PASS		03/16/92
MAIN STEAM 'A' LINE IN CONT							C/S AF 2 3/4 AR 2 3/4		
GBC 101H 137B	04578	10	S		03/14/92	1632	PASS		03/16/92
MAIN STEAM 'A' LINE IN CONT							C/S AF 1 3/4 AR 1 3/4		
GBC 101H 138	02839	35			03/28/92	1505	PASS		Z
MAIN STEAM 'A' LINE IN CONT							C/S AF 3 AR 2 3/4		
GBC 101H 139	02838	35			03/28/92	1113	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGED TO STRUT,P/P-4'3"		C/S AF 3 AR 3		

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AS OF: 07/20/92 TIME: 11.11.32

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GBC 101H 140	03244	35			03/31/92	1319	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGED TO STRUT			C/S AF 3.25 AR 3.25	
GBC 101H 141	00794	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 6'0 3/4"				
GBC 101H 142	02604	35			03/29/92	1040	PASS		Z
MAIN STEAM 'A' LINE IN CONT					P/P-7'4"			C/S AF 3.25 AR 3.25	
GBC 101H 143A	01263	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 143B	01274	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 144	01235	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 147	01236	35	S	92-045	03/13/92	836	PASS		03/20/92
MAIN STEAM 'D' LINE IN CONT					PP 3'-10 1/4"		C/S AF 2 1/2" AR 2 1/2"		
GBC 101H 148	01248	35			X	0			X
MAIN STEAM 'D' LINE IN CONT									
GBC 101H 151	01541	35			04/14/92	759	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHNG TO STRT,P/P-7'C/S AF 3 1/4 AR 3 1/4				
GBC 101H 152	00880	35			04/15/92	1345	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CNG TO STRT,PP-5'10C/S AF 2 3/4 AR 2 3/4				
GBC 101H 153	01536	35			04/10/92	1453	PASS		Z
MAIN STEAM 'D' LINE IN CONT					P/P-4'0"			C/S AF 2 1/2 AR 2 1/2	
GBC 101H 154	02746	35			X	0			X
MAIN STEAM 'D' LINE IN CONT									
GBC 101H 155	01512	35			04/10/92	1109	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGED TO STRUT,P/P-3'7"			C/S AF 3 AR 3	

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 156	08644	35			04/10/92	1140	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGED TO STRUT,P/P-5'8"			C/S AF 3 AR 3	
GBC 101H 157	00904	35			X	0			X
MAIN STEAM 'D' LINE IN CONT					PP 7'-5"				
GBC 101H 158	00925	35			03/20/92	1059	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGED TO STRUT			C/S AF 3" AR 3"	
GBC 101H 159	01240	35			04/16/92	1403	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGED TO STRUT			C/S AF 3 AR 2 3/4	
GBC 101H 160	01243	35			04/04/92	1308	DEGRADE		Z
MAIN STEAM 'D' LINE IN CONT								C/S AF 2 AR 2	
GBC 101H 162	02834	35			X	0			X
MAIN STEAM 'D' LINE IN CONT					PP 4'-6"				
GBC 101H 163	01246	35			X	0			X
MAIN STEAM 'D' LINE IN CONT									
GBC 101H 164	01261	35	S		03/25/92	249	PASS		Z
MAIN STEAM 'C' LINE IN CONT					REPET SPIK,PP3'8", C/S AF 2 1/2 AR 2 1/2				
GBC 101H 165	02755	35			X	0			X
MAIN STEAM 'C' LINE IN CONT									
GBC 101H 166	00877	35	S	92-045	03/15/92	812	PASS		04/03/92
MAIN STEAM 'C' LINE IN CONT					PP 6'-1"			C/S AF 3 AR 3	
GBC 101H 167	01296	35			03/25/92	1823	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANGED TO STRUT			C/S AF 2 AR 2	
GBC 101H 168	12622	35			X	0			X
MAIN STEAM 'C' LINE IN CONT									
GBC 101H 169	00881	35		92-085	03/25/92	1638	PASS		Z
MAIN STEAM 'C' LINE IN CONT					P/P-4'8"			C/S AF 2 3/8 AR 3 1/8	

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 170	11020	35	F		03/26/92	1139	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHNG TO STRT PP-7'11" C/S AF,AR 2 3/4"				
GBC 101H 173A	01496	35			03/25/92	1116	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANG/STRUT,P/P-6'6"			C/S AF 2 AR 2	
GBC 101H 173B	01388	35			03/25/92	1142	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANG/STRUT,P/P-6'6", C/S AF 2 1/8 AR 2				
GBC 101H 175	00890	35		92-085	03/25/92	1046	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANG/STRUT,P/P-6'9",CS AF3 1/8 AR2 1/2				
GBC 101H 177	01299	35			03/25/92	1253	PASS		Z
MAIN STEAM 'C' LINE IN CONT					CHANGED TO STRUT C/S AF 3 3/4" AR 3 3/4"				
GBC 101H 178	02651	35			04/03/92	827	PASS		Z
MAIN STEAM 'D' LINE IN CONT								C/S AF 4 AR 4	
GBC 101H 180	01495	35			X	0			X
MAIN STEAM 'D' LINE IN CONT									
GBC 101H 181	01393	35			X	0			X
MAIN STEAM 'D' LINE IN CONT					PP 5'-5 1/2"				
GBC 101H 182	01502	35	S		03/26/92	2222	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGED TO STRUT			C/S AF 3 AR 3	
GBC 101H 183	01525	35			X	0			X
MAIN STEAM 'D' LINE IN CONT									
GBC 101H 186A	00901	35			03/25/92	904	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANG/STRUT,P/P-5'1"			C/S AF 4 AR 4	
GBC 101H 186B	00909	35		92-085	03/18/92	1048	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGED TO STRUT,P/P-5'1"C/S AF,AR 1 3/4				
GBC 101H 187	01523	35			X	0			X
MAIN STEAM 'D' LINE IN CONT					PP 4'-11 5/16"				

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GBC 101H 188	02743	35		92-085	03/22/92	928	PASS		Z
MAIN STEAM 'D' LINE IN CONT					P/P-7'7"		C/S AF 3 1/2" AR 1/8"		
GBC 101H 189	00912	35			03/22/92	847	PASS		Z
MAIN STEAM 'D' LINE IN CONT					P/P-5'9"		C/S AF 3.5 AR 3.5		
GBC 101H 190	01383	35			04/10/92	1307	PASS		Z
MAIN STEAM 'B' LINE IN CONT					P/P-4'4"		C/S AF 2 1/2 AR 2 1/2		
GBC 101H 191	01530	35			04/13/92	1414	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CNG TO STRT,PP-4'5"		C/S AF 3 1/4 AR 3 1/4		
GBC 101H 192	01533	35			04/10/92	1422	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CLAMP REMOVED,P/P-4'7"		C/S AF 3 AR 3		
GBC 101H 193	06933	35			X	0			X
MAIN STEAM 'B' LINE IN CONT					PP 6'-10"				
GBC 101H 194	01385	35			04/07/92	757	PASS		Z
MAIN STEAM 'B' LINE IN CONT							C/S AF 4.25 AR 4.25		
GBC 101H 195	01161	35		92-085	03/17/92	1131	PASS		Z
MAIN STEAM 'B' LINE IN CONT					P/P-6'6"		C/S AF 1 1/2" AR 1 1/2"		
GBC 101H 196	01290	35			X	0			X
MAIN STEAM 'B' LINE IN CONT									
GBC 101H 197	01358	35			X	0			X
MAIN STEAM 'B' LINE IN CONT					PP 4'-5 1/4"				
GBC 101H 198	01242	35			04/04/92	834	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHANGED TO STRUT		C/S AF 2 3/4 AR 2 3/4		
GBC 101H 199	02674	35			04/06/92	1356	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHG TO STRT,PP-4'7"		C/S AF 2 1/4 AR 2 1/4		
GBC 101H 200	02671	35	S	92-085	03/26/92	1640	PASS		Z
MAIN STEAM 'B' LINE IN CONT					P/P-6'7"		C/S AF 3 1/2" AR 2 1/2"		

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GBC 101H 202	04098	35			04/10/92	1010	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CLAMP REMOVED			C/S AF 2 AR 2	
GBC 101H 203	06964	35			X	0			X
MAIN STEAM 'B' LINE IN CONT									
GBC 101H 204	01360	35			03/26/92	1255	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHNG TO STRUT,P/P-6'7"			C/S AF 2 AR 2	
GBC 101H 206	01256	35			03/16/92	1610	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHANGED TO STRUT C/S AF 2 3/4" AR 2 3/4"				
GBC 101H 208	01298	35			03/17/92	800	FAIL		Z
MAIN STEAM 'B' LINE IN CONT					CHANGE TO STRUT P/P3'-9" C/S AF,AR 3 1/4				
GBC 101H 209	01292	35			03/16/92	1445	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHANGED TO STRUT C/S AF 3 1/2" AR 3 1/2"				
GBC 101H 210	01154	35			04/07/92	855	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CLAMP REMOVED,P/P-5'6" C/S AF 1 1/2 AR 1				
GBC 101H 211	01155	35			04/10/92	1042	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CLMP RMVD,P/P-4'2" C/S AF 1 1/4 AR 1 1/4				
GBC 101H 212	01231	35			X	0			X
MAIN STEAM 'B' LINE IN CONT					PP 3'-11 1/16"				
GBC 101H 213	02577	35			04/14/92	1357	PASS		Z
MAIN STEAM 'B' LINE IN CONT					P/P-3'9"			C/S AF 3 AR 3	
GBC 101H 214	02753	35			04/07/92	746	PASS		Z
MAIN STEAM 'B' LINE IN CONT					P/P-7'7"			C/S AF 3 AR 3	
GBC 101H 215	08620	35			04/06/92	1429	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHN TOSTRT,PP-3'11"C/S AF 2 3/4 AR 2 3/4				
GBC 101H 216	01371	35			04/17/92	750	PASS		Z
MAIN STEAM 'B' LINE IN CONT					CHANGED TO STRUT,P/P-3'3"			C/S AF 3 AR 3	

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 217 MAIN STEAM 'B' LINE IN CONT	01176	35			X PP 4'-2"	0			X
GBC 101H 218 MAIN STEAM 'B' LINE IN CONT	06945	35			X	0			X
GBC 101H 219A MAIN STEAM 'B' LINE IN CONT	01180	35			X PP 7'-1 1/2"	0			X
GBC 101H 219B MAIN STEAM 'B' LINE IN CONT	01189	35			X PP 7'-1 1/2"	0			X
GBC 101H 220A MAIN STEAM 'B' LINE IN CONT	02658	35			X PP 5'-11 3/16"	0			X
GBC 101H 220B MAIN STEAM 'B' LINE IN CONT	02664	35			X PP 6'-10"	0			X
.BC 101H 221A MAIN STEAM 'B' LINE IN CONT	03726	35			X P/P 7'4 7/8"	0			X
GBC 101H 221B MAIN STEAM 'B' LINE IN CONT	01181	35			X P/P 6' 1 1/8"	0			X
GBC 101H 225 MAIN STEAM 'A' LINE IN CONT	08643	35	S	92-045	03/14/92 P/P5'-11 1/2"	1406	PASS	C/S AF 2" AR 2"	03/19/92
GBC 101H 226 MAIN STEAM 'A' LINE IN CONT	09465	35	F		03/31/92 P/P-5'7"	857	PASS	C/S AF 1 1/2 AR 1 1/2	Z
GBC 101H 228 MAIN STEAM 'B' LINE IN CONT	02678	35			03/17/92	900	PASS	C/S AF 2" AR 2"	Z
GBC 101H 230 MAIN STEAM 'A' LINE IN CONT	01522	35			04/14/92 CLAMP REMOVED,P/P-6'7"	922	PASS	C/S AF 3 AR 3	Z
GBC 101H 231 MAIN STEAM 'A' LINE IN CONT	01338	35			X P/P 4'9 7/8"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 232	01507	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P-7'2 1/2"				
GBC 101H 233	01332	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 234	08645	35			04/16/92	1341	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGED TO STRUT		C/S AF 1 1/2 AR 1 1/2		
GBC 101H 237A	01357	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 7'0 3/4"				
GBC 101H 237B	08618	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 6'2 13/16"				
GBC 101H 238	01264	35			03/15/92	1350	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGED TO STRUT,P/P-4'0"			C/S AF 3 AR 3	
GBC 101H 239	03496	35			04/16/92	824	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CLAMP REMOVED,P/P-7'6"			C/S AF 3 AR 3	
GBC 101H 240	01258	35			04/16/92	1336	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGED TO STRUT			C/S AF 3 AR 1/2	
GBC 101H 241	01234	35			04/16/92	1147	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGE TO STRUT		C/S AF 1 1/4 AR 1 1/4		
GBC 101H 242	01380	35			X	0			X
MAIN STEAM 'D' LINE IN CONT									
GBC 101H 244A	01262	35			04/16/92	736	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGE TO STRUT,P/P-6'10"			C/S AF 3 AR 3	
GBC 101H 244B	01259	35			04/15/92	1429	DEGRADE		Z
MAIN STEAM 'D' LINE IN CONT					CNG TO STRT,PP-4'5"C/S AF 2 1/2 AR 2 1/2				
GBC 101H 245	01382	35	S		03/26/92	1906	PASS		Z
MAIN STEAM 'D' LINE IN CONT					P/P-4'1"			C/S AF 3 AR 3	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 246	01491	35			04/14/92	727	PASS		Z
MAIN STEAM 'D' LINE IN CONT					P/P-7'9"		C/S AF 2 1/2 AR 2 1/2		
GBC 101H 247	08648	35			03/18/92	1413	PASS		04/07/92
MAIN STEAM 'D' LINE IN CONT					VLV WK P/P6'5"		C/S AF 2 1/2" AR 2 1/2"		
GBC 101H 248	01191	35			04/13/92	918	PASS		Z
MAIN STEAM 'D' LINE IN CONT					CHANGE TO STRUT		C/S AF 3 1/2 AR 3 1/2		
GBC 101H 252	01327	35			04/14/92	1306	PASS		Z
MAIN STEAM 'A' LINE IN CONT					P/P-5'1"		C/S AF 3 1/4 AR 3 1/4		
GBC 101H 253	01267	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 4' 5 1/4"				
GBC 101H 254A	01353	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 7' 0 7/8"				
GBC 101H 254B	03182	35			X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 7'1"				
GBC 101H 255	01343	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 256	02742	35			04/13/92	943	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGE TO STRUT		C/S AF 2 1/2 AR 2 1/2		
GBC 101H 257	01331	35			04/15/92	1530	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CNG TO STRT,PP-5'6"		C/S AF 2 1/2 AR 2 1/2		
GBC 101H 262	01505	35		92-131	X	0			X
MAIN STEAM 'A' LINE IN CONT					P/P 8' 2 5/8"				
GBC 101H 263	01513	35			04/13/92	1312	PASS		Z
MAIN STEAM 'A' LINE IN CONT							C/S AF 3 1/2 AR 3 1/2		
GBC 101H 264	01509	35			04/14/92	1051	DEGRADE		Z
MAIN STEAM 'A' LINE IN CONT					P/P-8'1"			C/S AF 2 AR 2	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 265	01389	35	S	92-045	03/14/92	1446	PASS		03/19/92
MAIN STEAM 'A' LINE IN CONT					P/P 4'2 1/4"		C/S AF 3 1/8" AR 3 1/8"		
GBC 101H 266A	01349	35			04/13/92	1341	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGE TO STRUT,P/P-9'5"			C/S AF 3 AR 3	
GBC 101H 266B	01368	35			04/14/92	832	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CHANGE TO STRUT,P/P-9'5"			C/S AF 3 AR 3	
GBC 101H 267	01379	35			04/14/92	855	PASS		Z
MAIN STEAM 'A' LINE IN CONT					CNG TO STRT,PP-4'11C/S AF 3 1/4 AR 3 1/4				
GBC 101H 268	01531	35			04/09/92	1038	PASS		Z
MAIN STEAM 'A' LINE IN CONT					P/P-7'8"			C/S AF 3 AR 3	
GBC 101H 271	03497	35			04/10/92	744	PASS		Z
MAIN STEAM 'A' LINE IN CONT								C/S AF 4 AR 4	
GBC 101H 272	06967	35			X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 273	02632	35		92-131	X	0			X
MAIN STEAM 'A' LINE IN CONT									
GBC 101H 274	02614	35			04/09/92	846	PASS		Z
MAIN STEAM 'A' LINE IN CONT								C/S AF 3.5 AR 3.5	
GBC 101H 275	02676	35			04/09/92	812	PASS		Z
MAIN STEAM 'A' LINE IN CONT								C/S AF 3.5 AR 3.5	
GBC 101H 276	03243	35	S		03/17/92	1043	PASS		03/19/92
MAIN STEAM 'A' LINE IN CONT							C/S AF 4 1/2" AR 4 1/2"		
GBC 101H 277A	03188	35	S		03/24/92	828	PASS		Z
MAIN STEAM 'B' LINE IN CONT								C/S AF 1.25 AR 1.25	
GBC 101H 277B	06962	35	S		03/18/92	1119	PASS		03/21/92
MAIN STEAM 'B' LINE IN CONT							C/S AF 2 1/2" AR 2 1/2"		

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 101H 278 MAIN STEAM 'A' LINE IN CONT	04128	35			03/28/92 CNG TO STRT,P/P-7'5C/S AF 2 1/2 AR 2 1/2	1435	PASS		Z
GBC 101H 279 MAIN STEAM 'A' LINE IN CONT	03645	35			03/29/92 CNG TO STRT,P/P-7'11"C/S AF 3 3/8 AR 3.5	850	PASS		Z
GBC 101H 281 MAIN STEAM 'D' LINE IN CONT	03261	35		92-108	X	0			X
GBC 101H 282 MAIN STEAM 'A' LINE IN CONT	01501	35	S		03/28/92 CNG TO STRUT,P/P-5'9"C/S AF 3.25 AR 3.25	1144	PASS		Z
GBC 101H 301 MAIN STEAM 'C' LINE IN CONT	14794	10	S		03/26/92 CHANGE TO STRUT C/S AF 2 1/2 AR 2 1/2	1636	PASS		Z
GBC 101H 316A MAIN STEAM 'C' LINE IN CONT	01186	35			04/16/92 CNG TO STRT,PP-3'10C/S AF 2 1/2 AR 2 1/2	1437	PASS		Z
GBC 101H 316B MAIN STEAM 'C' LINE IN CONT	02574	35			04/16/92 CNG TO STRT,PP-3'10C/S AF 2 1/2 AR 2 1/2	1508	PASS		Z
GBC 101H 318A MAIN STEAM 'C' LINE IN CONT	00383	10	S		03/15/92 P/P 4'1 9/16" C/S AF 3 1/2 AR 3 1/2	20	PASS		04/03/92
GBC 101H 318B MAIN STEAM 'C' LINE IN CONT	13666	10	S		03/14/92 P/P 4'1 9/16" C/S AF 3 5/8 AR 3 5/8	2353	PASS		04/03/92
GBC 101H 330 MAIN STEAM 'D' LINE IN CONT	06965	35			04/16/92 CHANGE TO STRUT C/S AF 3 1/2 AR 3 1/2	1120	PASS		Z
GBC 101H 331 MAIN STEAM 'D' LINE IN CONT	06949	35			04/09/92 CHANGE TO STRUT C/S AF 2 1/2 AR 2 1/2	1344	PASS		Z
GBC 101H 332 MAIN STEAM 'D' LINE IN CONT	06950	35			X	0			X
GBC 101H 333 MAIN STEAM 'C' LINE IN CONT	06963	35			04/13/92 C/S AF 3.25 AR 3.25	809	PASS		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
GBC 105H 5A DIV I LPCI/SDC RHR	02155	3			X P/P 2'8 3/8"	0			X
GBC 105H 5B DIV I LPCI/SDC RHR	02145	3			X P/P 2'8 3/8"	0			X
GBD 122H 5 FW COMMON DISCH	00276	10L			X	0			X
HBB 101H 2 RCIC STM EXHAUST	07404	35	S	92-045	03/10/92 PP 3'-11 1/8"	1457	PASS	C/S AF 3" AR 3"	03/11/92
HBB 101H 4 RCIC STM EXHAUST	16755	1			X	0			X
HBB 101H 10A RCIC STM EXHAUST	12204	1			X PP 5'-1"	0			X
HBB 101H 10B RCIC STM EXHAUST	12206	1			X PP 5'-1 1/2"	0			X
HBB 103H 3 RCIC LARGE PIPE SUCTION	05007	1			X	0			X
HBB 104H 10 CORE SPRAY 'A' LOOP SUCT	26083	1			X PP 3'-9 1/2"	0			X
HBB 104H 11 CORE SPRAY 'A' LOOP SUCT	03571	3			X	0			X
HBB 104H 12 CS'B'LOOP SUCT & HPCI LP SUCT.	02429	1			X PP 3'-5 1/2"	0			X
HBB 104H 13 CS'B'LOOP SUCT & HPCI LP SUCT.	02098	10			X PP 4'-6 3/4"	0			X
HBB 104H 16 CS'B'LOOP SUCT & HPCI LP SUCT.	06069	3			X PP 4'-8 5/8"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBB 104H 27 CORE SPRAY 'A' LOOP SUCT	14453	1/2	F		03/11/92 PP 5'-7 7/8"	827	PASS C/S AF 1 1/2" AR 1 1/2"		03/12/92
HBB 104H 30 CORE SPRAY 'A' LOOP SUCT	21564	1	F		03/11/92	908	PASS	C/S AF 2" AR 2"	03/12/92
HBB 104H 34 CS'B'LOOP SUCT & HPCI LP SUCT	02123	10			X	0			X
HBB 104H 35 CS'B'LOOP SUCT & HPCI LP SUCT.	09489	35			X PP 6'-3 1/4"	0			X
HBB 104H 39A CS'B'LOOP SUCT & HPCI LP SUCT.	11101	10			X PP 3'-2 3/8"	0			X
HBB 104H 39B CS'B'LOOP SUCT & HPCI LP SUCT.	04266	10			X PP 3'-2 3/8"	0			X
HBB 107H 2A CS'B'LOOP SUCT & HPCI LP SUCT.	00374	10			X PP 3'-1 9/16"	0			X
HBB 107H 2B CS'B'LOOP SUCT & HPCI LP SUCT.	03110	35			X PP 3'-4 1/2"	0			X
HBB 107H 4 CS'B'LOOP SUCT & HPCI LP SUCT.	08308	10			X	0			X
HBB 108H 1 HPCI STM EXHAUST	04850	10			X	0			X
HBB 108H 2 HPCI STM EXHAUST	08609	35			X PP 5'-6 1/2"	0			X
HBB 108H 7 HPCI STM EXHAUST	21107	1/4			X	0			X
HBB 108H 8 HPCI STM EXHAUST	12205	1			X PP 5'-8 5/16"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBB 108H 11 HPCI STM EXHAUST	08608	35			X PP 4'-5/8"	0			X
HBB 108H 12A HPCI STM EXHAUST	01327	100			X PP 6'-2"	0			X
HBB 108H 12B HPCI STM EXHAUST	01326	100			X PP 6'-2"	0			X
HBB 109H 6 CS'B'LOOP SUCT & HPCI LP SUCT.	02807	35			X PP 4'-4 3/16"	0			X
HBB 109H 7 CS'B'LOOP SUCT & HPCI LP SUCT.	02093	10			X PP 4'-9"	0			X
HBB 110H 3 RHR PUMP SUCT IMPACTING	00572	100			X	0			X
HBB 110H 12 RHR PUMP SUCT IMPACTING	01098	100			X PP 4'-3 1/2"	0			X
HBB 110H 21 RHR PUMP SUCT IMPACTING	01143	100			X	0			X
HBB 110H 27 RHR PUMP SUCT IMPACTING	00945	100			X	0			X
HBB 110H 32 RHR PUMP SUCT IMPACTING	06070	3			X PP 3'-4 1/2"	0			X
HBB 110H 33 RHR PUMP SUCT IMPACTING	04605	10	F		03/26/92 PP 3'-2 3/4"	1256	PASS C/S AF 3.25 AR 3.25		04/01/92
HBB 110H 35 RHR PUMP SUCT IMPACTING	04606	10			X PP 3'-4 5/8"	0			X
HBB 110H 36 RHR PUMP SUCT IMPACTING	07536	35			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBB 110H 37 RHR PUMP SUCT IMPACTING	07524	35			X	0			X
HBB 110H 38 RHR PUMP SUCT IMPACTING	04607	10			X PP 3'-5"	0			X
HBB 110H 39 RHR PUMP SUCT IMPACTING	03067	35			X PP 5'-7 11/16"	0			X
HBB 110H 42 RHR PUMP SUCT IMPACTING	01641	100			X	0			X
HBB 110H 43 RHR PUMP SUCT IMPACTING	03221	35			X PP 4'-5 1/4"	0			X
HBB 110H 44A RHR PUMP SUCT IMPACTING	08613	35			X PP 8'-6 1/4"	0			X
HBB 110H 44B RHR PUMP SUCT IMPACTING	08614	35			X PP 8'-6 1/4"	0			X
HBB 110H 45 RHR PUMP SUCT IMPACTING	03206	35			X	0			X
HBB 110H 47 RHR PUMP SUCT IMPACTING	00557	100			X	0			X
HBB 110H 50 RHR PUMP SUCT IMPACTING	12222	10			X	0			X
HBB 111H 5 RHR PUMP SUCT IMPACTING	04608	10			X	0			X
HBB 111H 11 RHR PUMP SUCT IMPACTING	12270	10			X	0			X
HBB 111H 12 RHR PUMP SUCT IMPACTING	03426	1			X PP 2'-6 3/4"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBB 111H 15 RHR PUMP SUCT IMPACTING	02423	1			X PP 2'-5 5/8"	0			X
HBB 111H 23 RHR PUMP SUCT IMPACTING	09266	10			X	0			X
HBB 111H 29A RHR PUMP SUCT IMPACTING	07538	35			X	0			X
HBB 111H 29B RHR PUMP SUCT IMPACTING	01328	100			X P/P 8'0 3/8"	0			X
HBB 111H 30 RHR PUMP SUCT IMPACTING	03482	35			X	0			X
HBB 111H 31A RHR PUMP SUCT IMPACTING	08603	35			X PP 4'-11"	0			X
HBB 111H 31B RHR PUMP SUCT IMPACTING	08604	35			X PP 4'-7 1/4"	0			X
HBB 111H 32A RHR PUMP SUCT IMPACTING	01347	35			X PP 3'-5"	0			X
HBB 111H 32B RHR PUMP SUCT IMPACTING	01319	35			X PP 5'-7/8"	0			X
HBB 111H 33A RHR PUMP SUCT IMPACTING	00968	35			X PP 4'-4 3/8"	0			X
HBB 111H 33B RHR PUMP SUCT IMPACTING	02642	35			X	0			X
HBB 111H 34 RHR PUMP SUCT IMPACTING	03256	35			X	0			X
HBB 111H 37 RHR COMMON IMPACTING	04272	10			X PP 5'-5 3/4"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBB 113H 4 RCIC LARGE PIPE SUCTION	03018	1			X PP 2'-3 3/8"	0			X
HBB 116H 1 CAC PURGE	13424	1/2			X	0			X
HBB 118H 7 CAC PURGE	08606	35			X PP 8'-5 3/4"	0			X
HBB 118H 8 CAC PURGE	08637	35			X PP 6'-11 1/2"	0			X
HBB 118H 9 CAC PURGE	06934	35			X	0			X
HBB 118H 10 CAC PURGE	02096	10	S		03/10/92	1005	PASS	C/S AF 2.25 AR 2.25	03/12/92
HBB 118H 11 CAC PURGE	03197	35			X	0			X
HBB 118H 12 CAC PURGE	03200	35			X	0			X
HBB 118H 13 CAC PURGE	06941	35			X	0			X
HBB 118H 14A CAC PURGE	00854	3	S		03/10/92 PP 2'-6 3/4"	1413	PASS	C/S AF 2.25 AR 2.25	03/12/92
HBB 118H 14B CAC PURGE	00852	3	S		03/10/92 PP 3'-2 5/8"	1450	PASS	C/S AF 2.25 AR 2.25	03/12/92
HBB 118H 15 CAC PURGE	01216	10	S		03/10/92	1504	PASS	C/S AF 2.75 AR 2.75	03/12/92
HBB 118H 16 CAC PURGE	01278	3			X PP 5'-1 1/2"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBB 118H 17 CAC PURGE	08319	10			X PP 5'-7 7/8"	0			X
HBB 118H 18 CAC PURGE	14786	10	S		03/10/92 PP 3'-2 3/16"	1519	PASS	C/S AF 3 AR 3	03/12/92
HBB 118H 19 CAC PURGE	02184	10			X	0			X
HBB 118H 20 CAC PURGE	04275	10			X PP 5'-4 1/4"	0			X
HBB 118H 21A CAC PURGE	13420	1/2			X	0			X
HBB 118H 21B CAC PURGE	13399	1/2			X	0			X
HBB 118H 22 CAC PURGE	12223	10			X	0			X
HBB 118H 23 CAC PURGE	17223	1	S		03/10/92	1052	PASS C/S AF 1 1/4" AR 1 1/4"		03/12/92
HBB 118H 25 CAC PURGE	12277	10			X	0			X
HBB 118H 26 CAC PURGE	14793	10			X	0			X
HBB 125H 2 RBCW 'A'LOOP COOLING CONT	03281	1/4			03/18/92 P/P-1'9"	158	FAIL C/S AF 1 3/4 AR 1 3/4		Z
HBB 126H 2 RBCW'A'LOOP COOLING CONT	13460	1/2		92-080	03/24/92	22	PASS C/S AF 1 3/8 AR 0		Z
HBC 4H 1 DIESEL GEN A	01688	1			X P/P-2'3"	0			X

LEGEND

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBC 4H 6 DIESEL GEN A	03185	35			X	0			X
HBC 5H 5A DIESEL GEN A	00323	10L			X	0			X
HBC 5H 5B DIESEL GEN A	00319	10L			X	0			X
HBC 5H 6A DIESEL GEN A	04270	10			X P/P-4'3"	0			X
HBC 5H 6B DIESEL GEN A	04278	10			X P/P-4'3"	0			X
HBC 5H 9 DIESEL GEN A	19502	3			X	0			X
HBC 5H 10A DIESEL GEN A	02474	3			X P/P-3'6"	0			X
HBC 5H 10B DIESEL GEN A	21558	1			X P/P-3'5"	0			X
HBC 5H 17 DIESEL GEN A	19446	3			X	0			X
HBC 5H 18 DIESEL GEN A	19463	3			X P/P-3'8"	0			X
HBC 5H 20A DIESEL GEN A	00219	3L			X P/P-5'3"	0			X
HBC 5H 20B DIESEL GEN A	00222	3L			X P/P-5'3"	0			X
HBC 5H 22 DIESEL GEN A	19449	3			X PP 3'-8 1/8"	0			X

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBC 5H 23 DIESEL GEN A	19468	3			X P/P-3'8"	0			X
HBC 7H 1 DIESEL GEN B	05421	1			X P/P-3'6"	0			X
HBC 7H 6 DIESEL GEN B	07535	35			X	0			X
HBC 8H 2 DIESEL GEN B	19504	3			X PP 4'-8 3/8"	0			X
HBC 8H 5A DIESEL GEN B	00318	10L			X	0			X
HBC 8H 5B DIESEL GEN B	00398	10L			X	0			X
HBC 8H 7 DIESEL GEN B	03073	3			X	0			X
HBC 8H 9A DIESEL GEN B	19553	3			X	0			X
HBC 8H 9B DIESEL GEN B	19551	3			X	0			X
HBC 8H 15 DIESEL GEN B	19571	3			X P/P-3'11"	0			X
HBC 8H 17A DIESEL GEN B	19510	3			X P/P-4'5"	0			X
HBC 8H 17B DIESEL GEN B	19555	3			X P/P-4'5"	0			X
HBC 8H 20 DIESEL GEN B	02478	3			X	0			X

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBC 9H 1 DIESEL GEN C	05423	1			X P/P-2'2"	0			X
HBC 9H 6 DIESEL GEN C	03211	35			X	0			X
HBC 11H 2 DIESEL GEN C	08629	35			X P/P-4'1"	0			X
HBC 11H 4A DIESEL GEN C	08630	35			X P/P-4'2"	0			X
HBC 11H 4B DIESEL GEN C	01348	35			X P/P-4'2"	0			X
HBC 11H 5A DIESEL GEN C	19549	3			X P/P-4'5"	0			X
HBC 11H 5B DIESEL GEN C	19498	3			X P/P-4'5"	0			X
HBC 11H 8 DIESEL GEN C	04060	3			X	0			X
HBC 11H 10A DIESEL GEN C	19561	3			X	0			X
HBC 11H 10B DIESEL GEN C	19570	3			X	0			X
HBC 11H 15 DIESEL GEN C	19448	3			X	0			X
HBC 11H 16 DIESEL GEN C	03556	3			X P/P-3'9"	0			X
HBC 11H 17A DIESEL GEN C	19499	3			X	0			X

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AS OF: 07/20/92 TIME: 11.11.32

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HBC 11H 17B DIESEL GEN C	19519	3			X	0			X
HBC 12H 4 DIESEL GEN D	01920	1			X	0			X
HBC 12H 6 DIESEL GEN D	02750	35			X	0			X
HBC 13H 2 DIESEL GEN D	00388	10			X PP 4'-4 3/8"	0			X
HBC 13H 4 DIESEL GEN D	06955	35			X	0			X
HBC 13H 6A DIESEL GEN D	07210	3			X PP 4'-3 1/4"	0			X
HBC 13H 6B DIESEL GEN D	04609	3			X PP 4'-3 1/4"	0			X
HBC 13H 9 DIESEL GEN D	19557	3			X	0			X
HBC 13H 11A DIESEL GEN D	00677	3			X	0			X
HBC 13H 11B DIESEL GEN D	06576	3			X	0			X
HBC 13H 16 DIESEL GEN D	02665	35			X P/P-4'5"	0			X
HBC 13H 18 DIESEL GEN D	19554	3			X P/P-3'10"	0			X
HBC 13H 19A DIESEL GEN D	00220	3L			X	0			X

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HBC 13H 19B DIESEL GEN D	00216	3L			X	0			X
HBC 117H 2 RHR COMMON IMPACTING	04583	10			X	0			X
HBC 117H 7 RHR COMMON IMPACTING	06812	3			X PP 2'-7 1/2"	0			X
HBC 117H 8 RHR COMMON IMPACTING	20804	1			X PP 2'-7 1/8"	0			X
HBC 117H 9 RHR COMMON IMPACTING	14390	1/2			X PP 2'-9 1/8"	0			X
HBC 117H 10 RHR COMMON IMPACTING	00105	1L			X PP 4'-3/4"	0			X
HBC3300H 2A DIESEL GEN E	07000	3			X CHANGE TO STRUT	0			X
HBC3300H 2B DIESEL GEN E	06890	3			X	0			X
HBC3300H 8 DIESEL GEN E	06978	3			X CHANGE TO STRUT	0			X
HBC3302H 5 DIESEL GEN E	22816	1			X	0			X
HBC3302H 6 DIESEL GEN E	22813	1			X PP 2'-1 1/4"	0			X
HBC3303H 4 DIESEL GEN E	07074	3			X CHANGE TO SPRING CAN	0			X
HBD 101H 1 MOIST SEP PIPING	03089	35	S	92-045 92-044	03/12/92 PP 6'-1 3/8"	1512	PASS C/S AF 2 1/2" AR 2 1/2"		03/19/92

GEND

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBD 101H 3 MOIST SEP PIPING	01288	3			03/28/92 PP 4'-5 3/4"	1029	PASS	C/S AF 2 AR 2	04/26/92
HBD 101H 4 MOIST SEP PIPING	01277	3	S		03/10/92 PP 4'-5 3/4"	836	PASS	C/S AF 2.5 AR 2.5	03/12/92
HBD 101H 5 MOIST SEP PIPING	00446	3			X PP 4'-11 1/2"	0			X
HBD 101H 6 MOIST SEP PIPING	01225	10			X PP 2'-9 1/4"	0			X
HBD 101H 8 MOIST SEP PIPING	04283	35			X PP 8'-1/4"	0			X
HBD 101H 10A MOIST SEP PIPING	04254	10			X PP 5'-4 15/16"	0			X
HBD 101H 10B MOIST SEP PIPING	04257	10			X PP 5'-4 5/16"	0			X
HBD 101H 11 MOIST SEP PIPING	04937	3			X PP 4'-5 1/4"	0			X
HBD 101H 12A MOIST SEP PIPING	07096	3			X PP 4'-2 3/8"	0			X
HBD 101H 12B MOIST SEP PIPING	07095	3			X PP 4'-2 3/8"	0			X
HBD 101H 14A MOIST SEP PIPING	01287	10			X	0			X
HBD 101H 14B MOIST SEP PIPING	01249	10			X	0			X
HBD 101H 16A MOIST SEP PIPING	01242	10			X PP 6'-2 1/4"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBD 101H 16B MOIST SEP PIPING	01221	10			X PP 3'-11 5/8"	0			X
HBD 101H 17 MOIST SEP PIPING	00452	3			X PP 4'-10"	0			X
HBD 101H 18 MOIST SEP PIPING	05841	1			X PP 5'-5"	0			X
HBD 103H 1A MOIST SEP PIPING	04351	10	S		03/10/92 PP 5'-9"	904	PASS C/S AF 3.25 AR 3.25		03/12/92
HBD 103H 1B MOIST SEP PIPING	04347	10	S		03/10/92 PP 5'-8 5/8"	937	PASS C/S AF 3.25 AR 3.25		03/12/92
HBD 103H 3A MOIST SEP PIPING	00233	1			X PP 3'-8"	0			X
HBD 103H 3B MOIST SEP PIPING	00234	1			X PP 3'-8"	0			X
HBD 103H 6A MOIST SEP PIPING	01277	10			X PP 3'-6"	0			X
HBD 103H 6B MOIST SEP PIPING	01274	10			X PP 3'-6"	0			X
HBD 103H 8A MOIST SEP PIPING	01388	1			X PP 3'-9 11/16"	0			X
HBD 103H 8B MOIST SEP PIPING	01346	1			X PP 3'-9 11/16"	0			X
HBD 103H 11A MOIST SEP PIPING	04346	10			X PP 5'-8"	0			X
HBD 103H 11B MOIST SEP PIPING	04346	10			X PP 5'-8"	0			X

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AS OF: 07/20/92 TIME: 11.11.32

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HBD 103H 13A MOIST SEP PIPING	00232	1	S		03/10/92 PP 3'-8 1/2"	921	PASS C/S AF 1 5/8" AR 1 5/8"		03/12/92
HBD 103H 13B MOIST SEP PIPING	18790	1	R		03/10/92 PP 3'-8 1/2"	836	PASS C/S AF 2" AR 2"		03/12/92
HBD 188H 3 RBCW'A'LOOP COOLING CONT	02860	1			03/21/92	315	PASS C/S AF 1 1/2 AR 1 1/2		Z
HBD 188H 4 RBCW'A'LOOP COOLING CONT	03145	1			03/21/92	253	PASS C/S AF 1 1/2 AR 1 1/2		Z
HBD 188H 5 RBCW'A'LOOP COOLING CONT	03498	1			03/18/92	1422	PASS C/S AF 2 AR 2		Z
HBD 188H 7 RBCW'A'LOOP COOLING CONT	07289	1			03/20/92	233	PASS C/S AF 2 AR 2		Z
HBD 188H 8A RBCW'A'LOOP COOLING CONT	10742	1/2			03/20/92	257	PASS C/S AF 1 AR 1		Z
HBD 188H 8B RBCW'A'LOOP COOLING CONT	13946	1/2			03/18/92 P/P-2'6"	2203	PASS C/S AF 1 1/4 AR 1 1/4		Z
HBD 188H 11A RBCW'A'LOOP COOLING CONT	00399	10L			03/21/92 P/P-5'3"	1118	PASS C/S AF 3.25 AR 3.25		Z
HBD 188H 11B RBCW'A'LOOP COOLING CONT	00238	10L			03/21/92 P/P-4'2"	1014	PASS C/S AF 3.25 AR 3.25		Z
HBD 188H 12 RBCW'A'LOOP COOLING CONT	17234	1			03/19/92	1641	PASS C/S AF 2 AR 2		Z
HBD 188H 14A RBCW'A'LOOP COOLING CONT	12961	1/2			03/22/92	1551	PASS C/S AF 1 AR 1		Z
HBD 188H 14B RBCW'A'LOOP COOLING CONT	12977	1/2			03/22/92	2041	PASS C/S AF 3/4 AR 3/4		Z

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HBD 188H 15A RBCW'A'LOOP COOLING CONT	14381	1/2	S		03/22/92	1618	PASS C/S AF 1.5 AR 1.5		Z
HBD 188H 15B RBCW'A'LOOP COOLING CONT	14386	1/2	S		03/20/92 P/P-1'6"USE ON SPDBA112H41 C/S AF 1 AR 1	1744	PASS		Z
HBD 188H 16 RBCW'A'LOOP COOLING CONT	14395	1/2			03/20/92	126	PASS C/S AF 1 AR 1		Z
HBD 189H 2 RBCW'A'LOOP COOLING CONT	02602	1/2		92-080	03/24/92 P/P-1'10"	52	PASS C/S AF 1" AR 0		Z
HBD 189H 3 RBCW'A'LOOP COOLING CONT	29317	1/4	S		03/23/92	1258	PASS C/S AF 1 1/2" AR 1 1/2"		Z
HBD 189H 5 RBCW'A'LOOP COOLING CONT	06810	3			03/19/92 P/P-2'1"	1549	PASS C/S AF 2 AR 2		Z
HBD 189H 6 RBCW'A'LOOP COOLING CONT	22923	1/4			03/18/92 P/P-2'3"	2329	PASS C/S AF 2 3/4 AR 2 3/4		Z
HBD 189H 7 RBCW'A' LOOP COOLING CONT	23352	1/4	S	92-085	03/18/92 P/P-3'1"	2112	DEGRADE C/S AF 1 3/4" AR 1 3/4"		Z
HBD 189H 8 RBCW'A'LOOP COOLING CONT	06798	3		92-080	03/24/92 P/P-2'10".	221	PASS C/S AF 2 AR 0		Z
HBD 189H 9 RBCW'A'LOOP COOLING CONT	02437	1			03/23/92	245	PASS C/S AF 1 AR 1		Z
HBD1039H 1 RBCW'B'LOOP COOLING CONT	12181	1	F		04/06/92 USEONSPDBA105H2001,PP-3'8"C/S AF2.5,2.25	1258	PASS		Z
HBD1039H 2 RBCW'B'LOOP COOLING CONT	06581	3			04/05/92 P/P-3'6"	811	PASS C/S AF 2.5 AR 2.5		Z
HBD1039H 3 RBCW'B'LOOP COOLING CONT	06582	3			04/06/92 CHN TO STRT,P/P-3'11"C/S AF 2.5 AR 2.5	1408	PASS		Z

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HBD1039H 7	17228	1			04/06/92	1338	PASS		Z
RBCW'B'LOOP COOLING CONT							C/S AF 1.75 AR 2.25		
HBD1039H 11	17211	1/2			04/05/92	822	PASS		Z
RBCW'B'LOOP COOLING CONT							C/S AF 1 AR 1		
HBD1039H 12	12960	1/2			04/05/92	805	PASS		Z
RBCW'B'LOOP COOLING CONT							C/S AF 1 1/2 AR 1 1/2		
HBD1040H 3	02403	1			04/08/92	832	PASS		Z
RBCW'B'LOOP COOLING CONT					CHANGED TO STRUT,P/P-2'5"		C/S AF 2 AR 2		
HBD1040H 9	28862	1/4			03/22/92	1356	PASS		Z
RBCW'B'LOOP COOLING CONT							C/S AF 2.25 AR 2.25		
HBD1040H 10	13050	1/4	F		03/23/92	2314	PASS		Z
RBCW'B'LOOP COOLING CONT							C/S AF 1 3/4 AR 1 3/4		
HBD1053H 47	13411	1/2			X	0			X
RBCW'A'LOOP COOLING CONT					PP 1'-10 3/8"				
HBD3300H 3	22821	1			X	0			X
DIESEL GEN E									
HCB 102H 4	06939	35			X	0			X
CS'B'LOOP SUCT & HPCI LP SUCT.									
HCB 103H 6A	00963	10	R		04/02/92	854	PASS		04/06/92
CS'B'LOOP SUCT & HPCI LP SUCT.							C/S AF 2 5/8 AR 2 5/8		
HCB 103H 6B	02194	10	F		04/02/92	751	FAIL	04279-78	04/06/92
CS'B'LOOP SUCT & HPCI LP SUCT.							C/S AF 2.75 AR 2.75		
HCB 104H 7	14393	1/2			X	0			X
RCIC LARGE PIPE SUCTION									
HCC 106H 10A	08700	10			X	0			X
RHR COMMON IMPACTING					PP 4'-7 3/8"				

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HCC 106H 10B RHR COMMON IMPACTING	08697	10			X PP 4'-7 3/8"	0			X
HCD 112H 21 RHR COMMON IMPACTING	03873	1/2			X PP 4'-10 5/8"	0			X
HCD 112H 22 RHR COMMON IMPACTING	10726	1/2			X PP 1'-10 5/8"	0			X
HCD 115H 14A CORE SPRAY 'A' LOOP SUCT	06954	35			X	0			X
HCD 115H 14B CORE SPRAY 'A' LOOP SUCT	06938	35			X	0			X
HRC 2H 9 ESW/RHR SW LOOP B RETURN	00457	1			X	0			X
HRC 2H 20 ESW/RHR SW LOOP B RETURN	17220	1			X	0			X
HRC 2H 22 ESW/RHR SW LOOP B RETURN	03484	1			X	0			X
HRC 2H 26 ESW/RHR SW LOOP B RETURN	19501	3			X	0			X
HRC 13H 15 ESW U1 B LOOP	08317	10			X	0			X
HRC 14H 18 ESW U1 B LOOP	12201	1			X	0			X
HRC 14H 19 ESW 'B' LOOP ISOLABLE PIPE	04575	3			X	0			X
HRC 14H 20 ESW 'B' LOOP ISOLABLE PIPE	03134	1			X PP 2'-9 1/2"	0			X

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HRC 17H 4 ESW 'A' LOOP ISOLABLE PIPE	26081	1			X PP 3'-11"	0			X
HRC 17H 5 ESW 'A' LOOP ISOLABLE PIPE	18578	1			X PP 3'-9"	0			X
HRC 17H 6 ESW 'A' LOOP ISOLABLE PIPE	17217	1			X PP 4'-4 3/4"	0			X
HRC 22H 7 ESW 'B' LOOP ISOLABLE PIPE	04255	10			X PP 3'-3 3/4"	0			X
HRC 22H 16 ESW 'B'LOOP ISOLABLE PIPE	18573	1			X	0			X
HRC 22H 18 ESW 'B' LOOP ISOLABLE PIPE	18557	1			X	0			X
HRC 102H 7A ESW UNIT 1&2 'A' LOOP	00230	1			X PP 2'-3 1/4"	0			X
HRC 102H 7B ESW UNIT 1&2 'A' LOOP	00231	1			X PP 2'-3 1/4"	0			X
HRC 105H 13A ESW/RHRSW UNIT 1&2 'A' LOOP	05003	1			X PP 4'-4 1/4"	0			X
HRC 105H 13B ESW/RHRSW UNIT 1&2 'A' LOOP	18839	1		92-088	X PP 4'-4 1/4"	0			X
HRC 123H 15 ESW U1 B LOOP	27958	1/4			X PP 4'-10 5/8"	0			X
HRC 123H 16 ESW UNIT 1&2 'A' LOOP	17218	1/2			X PP 3'-1/4"	0			X
HRC 124H 8 ESW U1 B LOOP	20796	1			X PP 4'-1 1/8"	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
HRC 131H 1 ESW U1 B LOOP	02263	1/2			X	0			X
JRD 32H 2 ESW/RHR SW LOOP B RETURN	17235	1			X	0			X
JRD 32H 4 ESW/RHR SW LOOP B RETURN	21563	1			X	0			X
JRD 107H 14 TBCCW ESW U1&2 A&B LOOP	08222	10			X	0			X
JRD 107H 15 TBCCW ESW U1&2 A&B LOOP	13403	10			X	0			X
JRD 128H 17 RBCCW ESW U1&2 A&B LOOP	18576	1	F		04/04/92 PP 5'-3/8"	1455	PASS	C/S AF 2 AR 2	04/06/92
JRD 128H 18 RWCCW ESW U1&2 A&B LOOP	17216	1			X PP 3'-4 7/16"	0			X
JRD 128H 19A RBCCW ESW U1&2 A&B LOOP	01655	1			X	0			X
JRD 128H 19B RBCCW ESW U1&2 A&B LOOP	06723	3			X	0			X
JRD 128H 22A RBCCW ESW U1&2 A&B LOOP	12409	10			X	0			X
JRD 128H 22B RBCCW ESW U1&2 A&B LOOP	13407	10			X	0			X
JRD 128H 23 RBCCW ESW U1&2 A&B LOOP	01234	10			X	0			X
JRD 128H 24 RBCCW ESW U1&2 A&B LOOP	08610	35			X PP 5'-1 3/8"	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
JRD 129H 16A ESW U1 B LOOP	28854	1/4			X	0			X
JRD 129H 16B ESW U1 B LOOP	28855	1/4			X	0			X
JRD 129H 19 ESW U1 A LOOP	07532	10			X PP 4'-1/2"	0			X
JRD 129H 20A ESW U1 A LOOP	13789	10			X	0			X
JRD 129H 20B ESW U1 A LOOP	08701	10			X	0			X
JRD 129H 23 ESW U1 A LOOP	20840	1	F		03/17/92 PP 4'-5 1/2"	1053	DEGRADE C/S AF 1 7/8 AR 1 7/8	20840	03/18/92
JRD 129H 24A ESW U1 A LOOP	14776	10			X PP 3'-2 3/8"	0			X
JRD 129H 24B ESW U1 A LOOP	13377	10			X PP 3'-2 3/8"	0			X
MSL 100H 1 MAIN TURB STEAM	01508	35	S		03/10/92	1408	PASS C/S AF 1 3/4" AR 1 3/4"		03/19/92
MSL 100H 2 MAIN TURB STEAM	01638	100	R	92-045	03/14/92 PP7'-6 1/4"RETEST/QC 3/16 C/S AF,AR 2.25	1355	PASS		03/19/92
MSL 100H 3 MAIN TURB STEAM	09515	35	S	92-045	03/13/92 PP 8'-8 3/4"	1358	PASS C/S AF 2.5 AR 2.5		03/19/92
MSL 100H 5A MAIN TURB STEAM	02573	10	R		03/10/92 PP 3'-3"	1719	PASS C/S AF 4.25 AR 4.25		03/19/92
MSL 100H 5B MAIN TURB STEAM	14780	10	R		03/10/92 PP 3'-3"	1545	PASS C/S AF 3 5/8" AR 3/5/8"		03/19/92

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
MSL 100H 6A MAIN TURB STEAM	02570	10	R		03/10/92 PP 3'-4"	1612	PASS C/S AF 1.5" AR 1.5"		03/19/92
MSL 100H 6B MAIN TURB STEAM	02569	10	R		03/10/92 PP 3'-4"	1641	PASS C/S AF 2 AR 2		03/19/92
MSL 100H 7 MAIN TURB STEAM	06943	35	F	92-045	03/12/92 PP 5'-9 1/4"	1552	PASS C/S AF 4 1/8" AR 4 1/8"		03/13/92
MSL 100H 9A MAIN TURB STEAM	08611	35	S	92-045 92-040	03/13/92 PP 5'-3"	1114	PASS C/S AF 2.25 AR 2.25		03/19/92
MSL 100H 9B MAIN TURB STEAM	02396	100	R___		03/10/92	1542	FAIL C/S AF 2 1/2" AR 2 1/2"	02396	03/19/92
MSL 100H 10A MAIN TURB STEAM	06952	35	R	92-045	03/12/92 PP 7'-11 7/16"	1558	PASS C/S AF 2 3/4" AR 2 3/4"		03/19/92
MSL 100H 10B MAIN TURB STEAM	02582	35	R	92-045	03/13/92 PP 10'-7/16"	1055	FAIL C/S AF 2 AR 2	01294-78	03/19/92
MSL 100H 11A MAIN TURB STEAM	02421	100	R		03/11/92	727	FAIL C/S AF 3 1/2" AR 3 1/2"	01637-82	03/19/92
MSL 100H 11B MAIN TURB STEAM	02400	100	R		03/10/92	1706	PASS C/S AF 3 1/2" AR 3 1/2"		03/19/92
MST 22H 11 MAIN STEAM 'D' LINE IN CONT	04094	35			X	0			X
MST 22H 12 MAIN STEAM 'D' LINE IN CONT	03642	35			X PP 7'-1/4"	0			X
MST 22H 13 MAIN STEAM 'D' LINE IN CONT	03634	35			04/16/92 P/P-7'0"	850	PASS C/S AF 3 AR 3		Z
MST 22H 14 MAIN STEAM 'D' LINE IN CONT	03266	35			03/14/92 S23109-MSV.P/P-7'9"	1457	PASS C/S AF 1 1/4 AR 1 1/4		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
MST 22H 15 MAIN STEAM 'C' LINE IN CONT	03175	35			04/16/92 P/P-7'2"	918	PASS	C/S AF 3 AR 3	Z
MST 22H 16 MAIN STEAM 'C' LINE IN CONT	03265	35			X PP 6'-11"	0			X
MST 22H 17 MAIN STEAM 'D' LINE IN CONT	00188	100			X PP-7'1"	0			X
MST 22H 18 MAIN STEAM 'D' LINE IN CONT	00123	100			04/16/92	1540	PASS	C/S AF 3 1/4 AR 3 1/4	Z
MST 22H 19 MAIN STEAM 'C' LINE IN CONT	04095	35			X	0			X
MST 22H 20 MAIN STEAM 'D' LINE IN CONT	03178	35			X PP 5'-10 1/2"	0			X
MST 22H 21 MAIN STEAM 'B' LINE IN CONT	01801	100			03/20/92	1426	PASS	C/S AF 2 3/4" AR 2 3/4"	Z
MST 22H 22 MAIN STEAM 'B' LINE IN CONT	00576	100			X	0			X
MST 22H 24 MAIN STEAM 'B' LINE IN CONT	08641	35		92-085	03/15/92 PP 10'-4"	925	PASS	C/S AF 4 1/2 AR 4 1/2	04/14/92
MST 22H 25 MAIN STEAM 'B' LINE IN CONT	04102	35			03/20/92	1131	PASS	C/S AF 3 1/2" AR 3 1/2"	Z
MST 22H 26 MAIN STEAM 'B' LINE IN CONT	03179	35			03/24/92 P/P-7'2"	740	PASS	C/S AF 2 5/8 AR 2	Z
MST 22H 27 MAIN STEAM 'B' LINE IN CONT	03264	35			X PP 6'-4 5/8"	0			X
MST 22H 28 MAIN STEAM 'B' LINE IN CONT	04118	35			03/21/92	735	PASS	C/S AF 3 1/2" AR 3 1/2"	Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
MST 22H 29 MAIN STEAM 'A' LINE IN CONT	03263	35			X PP-7'-1 1/4"	0			X
MST 22H 30 MAIN STEAM 'A' LINE IN CONT	03267	35			X PP 7'-5 5/8"	0			X
MST 22H 31 MAIN STEAM 'A' LINE IN CONT	03371	35			03/14/92 C23012REWORKPP7'-3 1/2 C/S AF,AR 3 1/2	1819	PASS		04/14/92
MST 22H 32 MAIN STEAM 'A' LINE IN CONT	04103	35			X	0			X
MST 22H 33 MAIN STEAM 'A' LINE IN CONT	02414	100	F		04/15/92	1302	PASS C/S AF 4 1/4 AR 4 1/4		Z
MST 22H 34 MAIN STEAM 'A' LINE IN CONT	01332	100			04/15/92 P/P-7'2"	742	PASS C/S AF 3 5/8 AR 3 5/8		Z
MST 22H 35 MAIN STEAM 'A' LINE IN CONT	06969	35			X PP 7'-1/2"	0			X
MST 22H 36A MAIN STEAM 'D' LINE IN CONT	04101	35			X	0			X
MST 22H 36B MAIN STEAM 'D' LINE IN CONT	04108	35			X	0			X
MST 22H 37 MAIN STEAM 'D' LINE IN CONT	02025	100			X	0			X
MST 22H 38 MAIN STEAM 'D' LINE IN CONT	01799	100			X PP 4'-5 1/8"	0			X
MST 22H 39 MAIN STEAM 'C' LINE IN CONT	03373	35			X PP 4'-6 1/2"	0			X
MST 22H 40 MAIN STEAM 'C' LINE IN CONT	03374	35			04/16/92 P/P-6'6"	1052	PASS C/S AF 1 1/4 AR 1 1/4		Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
MST 22H 41 MAIN STEAM 'C' LINE IN CONT	04125	35			X	0			X
MST 22H 42A MAIN STEAM 'A' LINE IN CONT	04090	35			X	0			X
MST 22H 42B MAIN STEAM 'A' LINE IN CONT	09525	35			X	0			X
MST 22H 44 MAIN STEAM 'C' LINE IN CONT	04124	35			X	0			X
MST 22H 45 MAIN STEAM 'C' LINE IN CONT	04117	35			04/13/92	853	PASS	C/S AF 3 AR 3	Z
MST 22H 46 MAIN STEAM 'A' LINE IN CONT	03375	35			04/15/92 P/P-4'2"	1701	PASS	C/S AF N/A AR 2	Z
MST 22H 47 MAIN STEAM 'A' LINE IN CONT	04091	35			X	0			X
MST 22H 48 MAIN STEAM 'B' LINE IN CONT	00566	100			X	0			X
MST 22H 49 MAIN STEAM 'B' LINE IN CONT	03376	35			03/19/92 P/P-4'0"	1642	PASS	C/S AF 1 5/8" AR 1 5/8"	Z
MST 22H 50 MAIN STEAM 'C' LINE IN CONT	03377	35			03/14/92 PP 10'-2"	1628	PASS	C/S AF 2 1/2" AR 2 1/2"	04/14/92
RWS 100H 1 DIV I LPCI/SDC RECIRC	03173	35			03/21/92 P/P-6'10"	1407	PASS	C/S AF 2 1/2" AR 2 1/2"	Z
RWS 100H 2 DIV I LPCI/SDC RECIRC	03289	35		92-085	03/21/92 P/P-6'10"	1604	PASS	C/S AF 2 1/2" AR 1"	Z
RWS 100H 3 COMMON LPCI/SDC RECIRC	03367	35	R		03/31/92 P/P-6'9"	1336	PASS	C/S AF 2 3/4 AR 2 3/4	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
RWS 100H 4 COMMON LPCI/SDC RECIRC	03368	35	R		03/31/92 P/P-4'8"	736	PASS	C/S AF 3 1/4 AR 3 1/4	Z
RWS 100H 5 DIV I LPCI/SDC RECIRC	04112	35			03/22/92 CLAMP REMOVED	1152	PASS	C/S AF 2.5 AR 2.5	Z
RWS 100H 6 DIV I LPCI/SDC RECIRC	03725	35		92-085	03/22/92 CLAMP REMVD,P/P-4'0",C/S AF3.25 AR 2 3/4	1112	PASS		Z
RWS 100H 7 COMMON LPCI/SDC RECIRC	03718	35			04/04/92 CLAMP REMOVED	812	PASS	C/S AF 1 1/2 AR 1 1/2	Z
RWS 100H 8 COMMON LPCI/SDC RECIRC	03760	35			04/04/92 CLAMP REMOVED	900	PASS	C/S AF 4 AR 4	Z
RWS 100H 9 COMMON LPCI/SDC RECIRC	03638	35			04/09/92 P/P-4'10"	741	PASS	C/S AF 3 AR 3	Z
RWS 100H 10 COMMON LPCI/SDC RECIRC	03189	35			03/31/92	1102	FAIL	C/S AF 2.5 AR 2.5	Z
RWS 100H 11 DIV I LPCI/SDC RECIRC	03369	35			03/20/92 P/P-4'7"	825	PASS	C/S AF 2 1/2" AR 2 1/2"	Z
RWS 100H 12 DIV I LPCI/SDC RECIRC	03484	35			X	0			X
RWS 100H 13 COMMON LPCI/SDC RECIRC	03370	35			X P/P 8'2"	0			X
RWS 100H 14 COMMON LPCI/SDC RECIRC	04111	35			04/03/92	832	PASS	C/S AF 4 AR 4	Z
RWS 100H 15 DIV I LPCI/SDC RECIRC	04114	35			03/18/92 CLAMP REMOVED	1547	PASS	C/S AF 3 1/4" AR 3 1/4"	Z
RWS 100H 16 DIV I LPCI/SDC RECIRC	03720	35			03/18/92 CLAMP REMOVED	1341	PASS	C/S AF 3" AR 3"	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
RWS 100H 17 COMMON LPCI/SDC RECIRC	11028	35			04/04/92 CLAMP REMOVED	1034	PASS C/S AF 2.5 AR 2.5		Z
RWS 100H 18 COMMON LPCI/SDC RECIRC	03762	35			04/04/92 CLAMP REMOVED	738	PASS C/S AF 3 3/4 AR 3 3/4		Z
RWS 100H 19 DIV I LPCI/SDC RECIRC	03709	35			03/19/92	1358	PASS C/S AF 3" AR 3"		Z
RWS 100H 20 DIV I LPCI/SDC RECIRC	03761	35			03/20/92	939	PASS C/S AF 3 1/2" AR 3 1/2"		Z
RWS 100H 21 DIV I LPCI/SDC RECIRC	03711	35			03/18/92	1312	PASS C/S AF 3 1/4" AR 3 1/4"		Z
RWS 100H 22 DIV I LPCI/SDC RECIRC	10539	35			03/21/92 P/P-7'2"	1029	PASS C/S AF 3" AR 3"		Z
RWS 100H 23 COMMON LPCI/SDC RECIRC	02670	35			04/03/92	754	PASS C/S AF 2.5 AR 3.5		Z
RWS 100H 24 COMMON LPCI/SDC RECIRC	03724	35			03/31/92 P/P-4'3"	1401	PASS C/S AF 2 7/8 AR 2 7/8		Z
RWS 100H 25A DIV I LPCI/SDC RECIRC	04110	35			X	0			X
RWS 100H 25B DIV I LPCI/SDC RECIRC	04092	35			X	0			X
RWS 100H 26A COMMON LPCI/SDC RECIRC	04105	35		92-096	X	0			X
RWS 100H 26B COMMON LPCI/SDC RECIRC	04093	35		92-096	X	0			X
RWS 100H 27A DIV I LPCI/SDC RECIRC	08607	35		92-085	03/21/92 P/P-6'10"	1249	PASS C/S AF 2 1/2" AR 2 1/2"		Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
RWS 100H 27B DIV I LPCI/SDC RECIRC	03172	35			03/21/92 P/P-6'10"	1101	PASS C/S AF 3 1/2" AR 3 1/2"		Z
RWS 100H 28A COMMON LPCI/SDC RECIRC	03248	35			03/31/92 CLAMP REMOVED,P/P-7'2"	1410	PASS C/S AF 4 AR 4		Z
RWS 100H 28B COMMON LPCI/SDC RECIRC	02591	35			04/07/92 P/P-7'5"	847	PASS C/S AF 3.5 AR 3.5		Z
RWS 100H 29 DIV I LPCI/SDC RECIRC	04090	35			X	0			X
RWS 100H 30 DIV I LPCI/SDC RECIRC	04116	35			X	0			X
RWS 100H 31 COMMON LPCI/SDC RECIRC	04123	35			X WA#Y10871	0			X
RWS 100H 32 COMMON LPCI/SDC RECIRC	04126	35			X	0			X
RWS 100H 33 DIV I LPCI/SDC RECIRC	03678	35	S	92-045	03/19/92 P/P 4'10" WA Y10872	1510	PASS CS AF 3",CS AR 3"		03/29/92
RWS 100H 34 DIV I LPCI/SDC RECIRC	03745	35	S	92-045	03/19/92 P/P 5-2 1/2" WA Y10872	1432	PASS CS AF,AR 2 1/2"		03/29/92
RWS 100H 35 COMMON LPSI/SDC RECIRC	03763	35			X	0			X
RWS 100H 36 COMMON LPSI/SDC RECIRC	03481	35			X	0			X
RWS 100H 37 COMMON LPSI/SDC RECIRC	03641	35	R		03/31/92 WA#Y10871,P/P-5'11"C/S AF 2 1/4 AR 2 1/4	1300	PASS		Z
RWS 100H 38 COMMON LPCI/SDC RECIRC	04107	35	R		04/02/92 WA#Y10871	1549	PASS C/S AF 3 AR 3		04/07/92

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
RWS 100H 39	03639	35		92-059	03/18/92	1623	PASS		Z
DIV I LPCI/SDC RECIRC					P/P-7'10"		C/S AF 4 1/2" AR 4 1/2"		
RWS 100H 40	03227	35			X	0			X
DIV I LPCI/SDC RECIRC									
RWS 100H 41	01591	100			X	0			X
COMMON LPCI/SDC RECIRC					P/P 7'3 3/4"				
RWS 100H 42	00634	100			X	0			X
COMMON LPSI/SDC RECIRC					P/P 5'11 5/8"				
RWS 100H 44	00189	100	F	92-085	03/26/92	1052	PASS		04/01/92
COMMON LPSI/SDC RECIRC				92-045	P/P6'-3/4"		C/S AF 2 1/2 AR 3 3/4		
RWS 100H 46	01290	100	F	92-059	03/18/92	734	PASS		03/20/92
DIV I LPCI/SDC RECIRC				92-045	WASH INSPTPERWAS14268,PP7'-1"C/S AF,AR 2				
RWS 100H 47	02394	100	F	92-059	03/18/92	815	PASS		03/20/92
DIV I LPCI/SDC RECIRC				92-045	WASHINSPTWAS14268,PP 5'-6 3/4"C/S AF,AR5				
RWS 100H 49	01118	100			X	0			X
DIV I LPCI/SDC RECIRC					P/P 6' 1 1/2"				
SPDBA 102H2000	28777	1/4			X	0			X
HPCI STM SUPPLY OUTSIDE					P/P 2' 3 1/4"				
SPDBA 102H2001	18580	1	S		03/16/92	251	PASS		Z
HPCI STM SUPPLY INSIDE							C/S AF 1 1/2 AR 1 1/2		
SPDBA 102H2003	13452	1/2			03/16/92	844	PASS		Z
HPCI STM SUPPLY INSIDE							C/S AF 1 1/2" AR 1 1/2"		
SPDBA 102H2018	02824	1			03/16/92	229	PASS		Z
HPCI STM SUPPLY INSIDE					CHANGE TO STRUT		C/S AF 1 1/2 AR 1 1/2		
SPDBA 102H2019	02409	1			03/16/92	157	PASS		Z
HPCI STM SUPPLY INSIDE					CHANGE TO STRUT		C/S AF 1 3/4 AR 1 3/4		

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBA 103H2000 Fw COMMON DISCHARGE	12967	1/2			X	0			X
SPDBA 105H2000 RCIC STM SUPPLY INSIDE	13054	1/4			04/09/92	1446	PASS	C/S AF 2 AR 2	Z
SPDBA 105H2001 RCIC STM SUPPLY INSIDE	13969	1			04/16/92 CNGTOSZ1/USEHBD1039H1PP3'1 3/4C/S 1 1/4	806	PASS	12181-80	04/27/92
SPDBA 105H2002 RCIC STM SUPPLY INSIDE	23586	1/4			03/16/92 P/P-2'4"	49	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDBA 107H2000 Fw COMMON DISCHARGE	13970	1/2			X	0			X
SPDBA 108H 1 MAIN STEAM DRNS INSIDE CONT	03870	1/2			03/24/92	2148	PASS	C/S AF 1 3/8 AR 1 3/8	Z
SPDBA 108H 3 MAIN STEAM DRNS INSIDE CONT	27877	1/4			03/24/92	2327	PASS	C/S AF 2 AR 2	Z
SPDBA 108H 4 MAIN STEAM DRNS INSIDE CONT	10733	1/2	F		03/22/92	1709	PASS	C/S AF 1 AR 1	Z
SPDBA 108H 6 MAIN STEAM DRNS INSIDE CONT	03871	1/2			X	0			X
SPDBA 109H2000 MAIN STEAM DRNS INSIDE CONT	29173	1/4			03/24/92	2350	PASS	C/S AF 2 AR 2	Z
SPDBA 110H 22 MAIN STEAM DRNS INSIDE CONT	13456	1/2			03/22/92	1835	PASS	C/S AF 1 AR 1	Z
SPDBA 111H 3 MAIN STEAM DRNS INSIDE CONT	28810	1/4	S		03/23/92 P/P-1'11"	2225	PASS	C/S AF 2 AR 2	Z
SPDBA 111H2000 MAIN STEAM DRNS INSIDE CONT	28879	1/4			03/23/92	2009	PASS	C/S AF 1 1/2 AR 1 1/2	Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBA 112H 2	12179	1			03/14/92	940	PASS		Z
HEAD VENT IN CONT					USE CLMP ON SPDBA112H26 C/S AF,AR 1 1/2"				
SPDBA 112H 5	10725	1/2			03/14/92	236	PASS		Z
HEAD VENT IN CONT							C/S AF 1 1/2 AR 1 1/2		
SPDBA 112H 11	06838	3			X	0			X
HEAD VENT IN CONT									
SPDBA 112H 12	09925	1/2			03/14/92	759	PASS		Z
HEAD VENT IN CONT							C/S AF 1 1/2" AR 1 1/2"		
SPDBA 112H 15A	04990	1			03/20/92	1545	PASS		Z
VESSEL SPIDER							C/S AF 1.5 AR 1.5		
SPDBA 112H 15B	04988	1			03/20/92	1630	PASS		Z
VESSEL SPIDER							C/S AF 1.25 AR 1.25		
SPDBA 112H 17	06674	1/2		92-085	03/19/92	2358	PASS		04/26/92
VESSEL SPIDER							C/S AF 3/4 AR 3/4		
SPDBA 112H 18	23387	1			03/20/92	416	PASS		Z
VESSEL SPIDER							C/S AF 2.5 AR 2.5		
SPDBA 112H 20	16409	1/4	S		03/24/92	2054	PASS		Z
HEAD VENT IN CONT							C/S AF 1 1/2 AR 1 1/2		
SPDBA 112H 22	13936	1/2			X	0			X
HEAD VENT IN CONT					P/P 2'8 5/8"				
SPDBA 112H 24	18577	1			03/25/92	152	PASS		Z
HEAD VENT IN CONT					CHANGE TO STRUT			C/S AF 2 AR 2	
SPDBA 112H 26	09945	1/2	F		03/25/92	1548	PASS		Z
HEAD VENT IN CONT					CNGTOSTRT,CLMPFMH2,PP3'-6"C/S AF,AR1 1/2				
SPDBA 112H 28	09922	1			03/22/92	1906	PASS	04991-78	04/16/92
VESSEL SPIDER					SNB,CLMP FM SPDBA112H29			C/S AF,AR 1 3/8	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBA 112H 29	04991	1		92-085	03/19/92	2220	PASS		Z
VESSEL SPIDER					SNB,CLMP FM SPDCA112H28 C/S AF,AR 1 1/4"				
SPDBA 112H 31	09923	1/2	S		03/22/92	1506	PASS		Z
VESSEL SPIDER								C/S AF 7/8 AR 7/8	
SPDBA 112H 33	12178	1		92-085	03/20/92	1442	PASS		Z
VESSEL SPIDER								C/S AF 1.75 AR 1.75	
SPDBA 112H 34	07227	3			03/20/92	1139	PASS		Z
VESSEL SPIDER					CLAMP REMOVED			C/S AF 2.5 AR 2.5	
SPDBA 112H 35	06842	3		92-085	03/20/92	952	PASS		Z
VESSEL SPIDER								C/S AF 2 5/8 AR 2 5/8	
SPDBA 112H 36	05014	1			03/20/92	1617	PASS		Z
VESSEL SPIDER								C/S AF 1 AR 1	
SPDBA 112H 37	06843	3			03/20/92	1118	PASS		Z
VESSEL SPIDER								C/S AF 2.75 AR 2.75	
SPDBA 112H 39	28923	1/4	S		03/20/92	213	PASS		Z
VESSEL SPIDER								C/S AF 2 3/4 AR 2 3/4	
SPDBA 112H 40	05015	1		92-085	03/20/92	1505	PASS		Z
VESSEL SPIDER								C/S AF 3 AR 3	
SPDBA 112H 41	01047	1/2			03/20/92	20	PASS	14386-82	03/30/92
VESSEL SPIDER					REPLW/SNBRHBD188H15B(307)C/S AF,AR 1 1/4				
SPDBA 112H 42	05016	1	S		03/19/92	2148	PASS		Z
VESSEL SPIDER								C/S AF,AR 3 5/8"	
SPDBA 112H 43	06844	3			03/20/92	1320	PASS		Z
VESSEL SPIDER								C/S AF 2 AR 2	
SPDBA 112H 45	02223	3			04/10/92	1125	PASS		Z
VESSEL SPIDER								C/S AF 3 AR 3	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBA 112H 46 VESSEL SPIDER	06845	1			04/09/92 SNUB&CLMP FRM SPDCA102H11BPP1'-8"C/S 3.5	859	PASS	21572-00	04/26/92
SPDBA 112H 50 VESSEL SPIDER	23047	1/4			X MODIFY PER PCN92-0382	0			X
SPDBA 112H2000 HEAD VENT IN CONT	18551	1	S		03/14/92	922	PASS	C/S AF 2" AR 2"	Z
SPDBA 114H2000 MAIN STEAM LEAKAGE CONTROL	18563	1			X	0			X
SPDBA 114H2001 MAIN STEAM LEAKAGE CONTROL	16852	1			X P/P 2'8 1/8"	0			X
SPDBA 114H2002 MAIN STEAM LEAKAGE CONTROL	13963	1/2			X	0			X
SPDBA 115H 3 MAIN STEAM LEAKAGE CONTROL	13955	1/2			X	0			X
SPDBA 115H 4 MAIN STEAM LEAKAGE CONTROL	22909	1/4			X	0			X
SPDBA 117H 3 MAIN STEAM LEAKAGE CONTROL	05006	1			X	0			X
SPDBA 117H2000 MAIN STEAM LEAKAGE CONTROL	13939	1/2			X	0			X
SPDBA 119H 3 MAIN STEAM 'C' LINE IN CONT	28886	1/4			03/22/92 CHANGE TO STRUT	259	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDBA 119H 4 MAIN STEAM 'C' LINE IN CONT	13070	1/4	S		03/13/92 P/P-1'9"	1510	PASS C/S AF 1 3/4" AR 1 3/4"		Z
SPDBA 119H2000 MAIN STEAM 'C' LINE IN CONT	27946	1/4			03/13/92 P/P-4'5"	121	PASS	C/S AF 2 1/4 AR 2 1/4	Z

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBA 120H 4 MAIN STEAM 'B' LINE IN CONT	13051	1/4			X	0			X
SPDBA 120H 5 MAIN STEAM 'B' LINE IN CONT	10952	1/4	S		03/21/92	1855	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDBA 120H2000 MAIN STEAM 'D' LINE IN CONT	27866	1/4	S		03/18/92 P/P-4'5"	1850	PASS	C/S AF 2 1/4 AR 2 1/4	Z
SPDBA 120H2003 MAIN STEAM 'B' LINE IN CONT	17235	1/2	S		03/20/92 P/P-1'9"	1808	PASS	C/S AF 1 AR 1	Z
SPDBB 107H2005 DIV I LPCI/SDC RHR	21121	1/4			X P/P 2'11 15/16"	0			X
SPDBB 107H2006 DIV I LPCI/SDC RHR	06330	1/4			X	0			X
SPDBB 107H2007 DIV I LPCI/SDC RHR	10745	1/2			X	0			X
SPDBB 107H2009 DIV I LPCI/SDC RHR	13403	1/2			X	0			X
SPDBB 108H 34 MAIN STEAM LEAKAGE CONTROL	28984	1/4			X P/P 2'0 3/4"	0			X
SPDBB 108H 41 MAIN STEAM LEAKAGE CONTROL	18556	1			X P/P 3'6 1/2"	0			X
SPDBB 108H2007 MAIN STEAM LEAKAGE CONTROL	12184	1			X P/P 2'11 3/8"	0			X
SPDBB 108H2008 MAIN STEAM LEAKAGE CONTROL	17243	1/2			X	0			X
SPDBB 108H2009 MAIN STEAM LEAKAGE CONTROL	18568	1			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBB 108H2010 MAIN STEAM LEAKAGE CONTROL	29012	1/4			X	0			X
SPDBB 108H2011 MAIN STEAM LEAKAGE CONTROL	18574	1			X	0			X
SPDBB 108H2012 MAIN STEAM LEAKAGE CONTROL	13472	1/2			X	0			X
SPDBB 109H 9 RCIC STM SUPPLY OUTSIDE	07233	3			X	0			X
SPDBB 109H 11 RCIC STM SUPPLY OUTSIDE	03566	3			X P/P 2'8 5/8"	0			X
SPDBB 109H2000A RCIC STM SUPPLY OUTSIDE	22969	1/4			X	0			X
SPDBB 109H2000B RCIC STM SUPPLY OUTSIDE	23014	1/4			X	0			X
SPDBB 109H2002 RCIC STM SUPPLY OUTSIDE	21150	1/4			X	0			X
SPDBB 109H2003 RCIC STM SUPPLY OUTSIDE	22968	1/4			X	0			X
SPDBB 109H2004 RCIC STM SUPPLY OUTSIDE	12969	1/2			X	0			X
SPDBB 109H2006 RCIC STM SUPPLY OUTSIDE	23049	1/4			X P/P2'1 7/16"	0			X
SPDBB 109H2011 RCIC STM SUPPLY OUTSIDE	23030	1/4			X	0			X
SPDBB 109H2013 RCIC STM SUPPLY OUTSIDE	23027	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBB 114H2001 HPCI STM SUPPLY OUTSIDE	17239	1/2			X	0			X
SPDBB 114H2003 HPCI STM SUPPLY OUTSIDE	21135	1/4			X	0			X
SPDBB 114H2009 HPCI STM SUPPLY OUTSIDE	00100	3L			X	0			X
SPDBB 121H2012 RCIC PUMP DSCH	23566	1/4			X	0			X
SPDBB 123H 3 MAIN STEAM LEAKAGE CONTROL	05009	1			X	0			X
SPDBB 123H4000 MAIN STEAM LEAKAGE CONTROL	14380	1/2			X	0			X
SPDBB 123H4001 MAIN STEAM LEAKAGE CONTROL	09721	1/4			X P/P2'3 9/16"	0			X
SPDBB 124H 2 MAIN STEAM LEAKAGE CONTROL	06828	3			X P/P 4'9"	0			X
SPDBB 124H 4 MAIN STEAM LEAKAGE CONTROL	05008	1			X	0			X
SPDBB 125H 3 MAIN STEAM LEAKAGE CONTROL	05010	1			X	0			X
SPDBB 125H 4 MAIN STEAM LEAKAGE CONTROL	05011	1			X	0			X
SPDBB 126H 2 MAIN STEAM LEAKAGE CONTROL	13466	1/2			X	0			X
SPDBB 126H2015A MAIN STEAM LEAKAGE CONTROL	13971	1/2			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDBB 126H2015B MAIN STEAM LEAKAGE CONTROL	13972	1/2			X	0			X
SPDBB 126H2016 MAIN STEAM LEAKAGE CONTROL	23024	1/4			X	0			X
SPDBB 126H2017 MAIN STEAM LEAKAGE CONTROL	13964	1/2			X P/P1'4 3/4"	0			X
SPDBC 101H 2 RWCU SUCT OUTSIDE CONT	06064	3	S		03/19/92	1327	PASS	C/S AF 2.5 AR 2.5	03/20/92
SPDBC 101H2011 RWCU SUCT OUTSIDE CONT	12186	1			X	0			X
SPDBD 107H2000 HPCI STM SUPPLY OUTSICE	03604	1			03/17/92 P/P 2'3 3/4"	910	PASS C/S AF 1 15/16 AR 1 15/16		04/16/92
SPDBD 107H2001 HPCI STM SUPPLY OUTSIDE	13438	1/2			X P/P4'10 7/16"	0			X
SPDBD 113H 5 RCIC STM SUPPLY OUTSIDE	03877	1/2			X	0			X
SPDCA 101H 8 VESSEL FLANGE LEAKOFF	13924	1/2			X	0			X
SPDCA 101H 15 VESSEL FLANGE LEAKOFF	23041	1/4	C		03/24/92	1750	FAIL C/S AF 2 1/4 AR 2 1/4	28859-82	03/27/92
SPDCA 101H2001 VESSEL FLANGE LEAKOFF	06251	1/4	CF		03/24/92	1838	PASS C/S AF 2 1/4 AR 2 1/4		03/27/92
SPDCA 101H2002 VESSEL FLANGE LEAKOFF	21567	1	C		03/24/92	1853	PASS C/S AF 1 AR 1		03/27/92
SPDCA 102H 10A RECIRC/RWCU COMMON SUCT	06821	3			X	0			X

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 102H 10B RECIRC/RWCU COMMON SUCT	06822	3			X	0			X
SPDCA 102H 11A RECIRC/RWCU COMMON SUCT	21572	1			03/31/92 SNB ON SPDBA112H46	2145	PASS	C/S AF 1 1/4	Z
SPDCA 102H 11B RECIRC/RWCU COMMON SUCT	21566	1			03/31/92 CLMP RMVD,P/P-1'11"C/S AF 1 1/4 AR 1 1/4	2112	DEGRADE		Z
SPDCA 102H 13A RECIRC/RWCU DIV I SUCT	18549	1	F		03/17/92 P/P 1'10 3/4"	105	PASS	C/S AF 1 1/4 AR 1 1/4	03/20/92
SPDCA 102H 13B RECIRC/RWCU DIV I SUCT	18559	1	F		03/17/92 P/P2'0 3/8"	207	PASS	C/S AF 1 1/4 AR 1 1/4	03/20/92
SPDCA 102H 14A RECIRC/RWCU DIV 1 SUCT	18588	1		92-085	03/19/92 P/P-2'4"	1459	PASS	C/S AF .5 AR .5	Z
SPDCA 102H 14B RECIRC/RWCU DIV 1 SUCT	02414	1			03/19/92 P/P-1'8"	1417	DEGRADE	C/S AF 1 AR 1	Z
SPDCA 102H 19 RECIRC/RWCU DIV 1 SUCT	12947	10			03/18/92	1626	PASS	C/S AF 2 7/8 AR 2 7/8	Z
SPDCA 102H 20 RECIRC/RWCU DIV I SUCT	03430	1			X	0			X
SPDCA 102H 22 RECIRC/RWCU DIV I SUCT	19563	3			03/20/92 P/P-2'8"	830	PASS	C/S AF 1.5 AR 1.5	Z
SPDCA 102H2000A RECIRC/RWCU COMMON SUCT	18585	1			03/29/92 WA#Y10871,CLMP RMVD,PP-2'1C/S AF,AR 1.5	806	PASS		Z
SPDCA 102H2000B RECIRC/RWCU COMMON SUCT	18582	1			03/29/92 WAY10871,CLMP RMVD,PP-2'4"C/S AF 1 AR 1	318	PASS		Z
SPDCA 102H2001 RECIRC/RWCU COMMON SUCT	09941	1/2			X RETURN FOR REINSTALLATION	0			X

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 107H 2 CORE SPRAY 'B' LOOP DISCH	28941	1/4			X P/P 2'0 3/8"	0			X
SPDCA 107H 6 CORE SPRAY 'A' LOOP DISCH	13122	1/4			X P/P 2'3 1/4"	0			X
SPDCA 107H2002 CORE SPRAY 'A' LOOP DISCH	22883	1/4			X P/P 2'8 7/16"	0			X
SPDCA 107H2003 CORE SPRAY 'A' LOOP DISCH	28979	1/4			X P/P 3'8 5/8"	0			X
SPDCA 107H2004 CORE SPRAY 'B' LOOP DISCH	22963	1/4			X	0			X
SPDCA 107H2006 CORE SPRAY 'B' LOOP DISCH	22884	1/4			X	0			X
SPDCA 107H2007 CORE SPRAY 'B' LOOP DISCH	22885	1/4			X	0			X
SPDCA 108H2013 RHR/RECIRC S.P. NONIMPACTING	04657	3			03/25/92	1058	PASS	C/S AF 3 AR 3	Z
SPDCA 108H2014 RHR/RECIRC S.P. NONIMPACTING	04618	3			03/26/92 CLMP REMVD.P/P-5'1"C/S AF 2 3/8 AR 2 3/8	35	PASS		Z
SPDCA 108H2015 RHR/RECIRC S.P. NONIMPACTING	18586	1	S		03/24/92 CLAMP REMOVED	2032	PASS	C/S AF 2 AR 2	Z
SPDCA 108H2016 RHR/RECIRC S.P. NONIMPACTING	02419	1	S		03/24/92 CLAMP REMOVED	1921	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 110H 2 RHR/RECIRC S.P. NONIMPACTING	13455	1/2			X P/P 3'6"	0			X
SPDCA 110H 4 RHR/RECIRC S.P. NONIMPACTING	17224	1			X P/P 2'9 3/8"	0			X

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 110H2008 RHR/RECIRC S.P. NONIMPACTING	05592	1/2			X P/P 4'6 15/16"	0			X
SPDCA 110H2012 RHR/RECIRC S.P. NONIMPACTING	02813	1			03/17/92	313	PASS	C/S AF 2 1/4 AR 2 1/4	03/27/92
SPDCA 110H2014 RHR NON-IMPACTING BULK	03116	3			X	0			X
SPDCA 116H 1 RECIRC NONIMPACTING B LOOP	06326	1/4	R		03/27/92	41	PASS	C/S AF 2 AR 2	Z
SPDCA 116H 2 RECIRC NONIMPACTING B LOOP	05132	1/4	R		03/27/92 P/P-2'0"	1056	PASS	C/S AF 1 1/4 AR 1 1/4	Z
SPDCA 116H 5 RECIRC NONIMPACTING B LOOP	13469	1/2			03/27/92 CHANGED TO A STURT	247	PASS	C/S AF 1 1/8 AR 1 1/8	Z
SPDCA 116H 6 RECIRC NONIMPACTING B LOOP	23353	1/4	F		03/27/92 P/P-3'8"	914	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 116H2001 RECIRC NONIMPACTING B LOOP	29015	1/4			03/27/92	126	FAIL	C/S AF 2 1/2 AR 2 1/2	Z
SPDCA 117H 2 RECIRC NONIMPACTING B LOOP	28019	1/4			03/27/92 P/P-3'7"	838	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 117H 13 RECIRC NONIMPACTING B LOOP	18830	1			03/27/92	437	PASS	C/S AF 1.5 AR 1.5	Z
SPDCA 117H 14 RECIRC NONIMPACTING B LOOP	13470	1/2			X P/P 1'6 3/8"	0			X
SPDCA 117H 16 RECIRC NONIMPACTING B LOOP	04104	1/4			03/27/92	11	FAIL	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 117H2003 RECIRC NONIMPACTING B LOOP	13965	1/2			03/27/92	805	PASS	C/S AF 1 AR 1	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 117H2004	09937	1/2			03/27/92	305	PASS		Z
RECIRC NONIMPACTING B LOOP							C/S AF 1 1/4 AR 1 1/4		
SPDCA 118H 27	23046	1/4			03/20/92	3	PASS		Z
RECIRC NONIMPACTING A LOOP								C/S AF 2 AR 2	
SPDCA 118H 31	16379	1/4	S		03/23/92	1135	PASS		Z
RECIRC NONIMPACTING A LOOP					P/P-2'0"			C/S AF 2" AR 2"	
SPDCA 118H2011	27975	1/4	S		03/23/92	1044	PASS		Z
RECIRC NONIMPACTING A LOOP					P/P-3'2"		C/S AF 2 1/2" AR 2 1/2"		
SPDCA 119H 31	06239	1/4	S		03/20/92	1640	PASS		Z
RECIRC NONIMPACTING A LOOP							C/S AF 1 5/8 AR 1 5/8		
SPDCA 119H2000	06246	1/4	S		03/17/92	2010	PASS		Z
RECIRC NONIMPACTING A LOOP							C/S AF 1 3/4 AR 1 3/4		
SPDCA 119H2003	28765	1/4			03/18/92	231	PASS		Z
RECIRC NONIMPACTING A LOOP							C/S AF 2 1/4 AR 2 1/4		
SPDCA 119H2004	22938	1/4	S		03/17/92	2139	PASS		Z
RECIRC NONIMPACTING A LOOP							C/S AF 2 1/4 AR 2 1/4		
SPDCA 119H2005	22961	1/4	S		03/17/92	2202	PASS		Z
RECIRC NONIMPACTING A LOOP							C/S AF 1 1/2 AR 1 1/2		
SPDCA 119H2009	22927	1/4			03/18/92	1924	PASS		Z
RECIRC NONIMPACTING A LOOP					P/P-3'3"		C/S AF 1 1/4 AR 1 1/4		
SPDCA 119H2011	13923	1/2			03/18/92	11	PASS		Z
RECIRC NONIMPACTING A LOOP					P/P-2'1"			C/S AF 2 AR 2	
SPDCA 119H2012	14374	1/2	S		03/19/92	242	PASS		Z
RECIRC NONIMPACTING A LOOP					P/P-2'8"			C/S AF 1 AR 1	
SPDCA 120H2006	23573	1/4			X	0			X
RECIRC NONIMPACTING B LOOP									

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 121H 24 RECIRC NONIMPACTING B LOOP	27840	1/4		92-079	03/23/92 P/P-4'5"	904	DEGRADE C/S AF 3/4" AR 3/4"		Z
SPDCA 121H 35 RECIRC NONIMPACTING B LOOP	06310	1/4			03/22/92	2108	PASS C/S AF 2 3/4 AR 2 3/4		Z
SPDCA 121H 36 RECIRC NONIMPACTING B LOOP	22951	1/4			03/23/92	143	PASS C/S AF 2 AR 2		Z
SPDCA 121H2002 RECIRC NONIMPACTING B LOOP	23000	1/4			X	0			X
SPDCA 121H2003 RECIRC NONIMPACTING B LOOP	28964	1/4			X P/P 2'6"	0			X
SPDCA 121H2004 RECIRC NONIMPACTING B LOOP	27953	1/4			X	0			X
SPDCA 121H2014 RECIRC NONIMPACTING B LOOP	09940	1/2			03/23/92 P/P-1'8"	1353	PASS C/S AF 1 1/4" AR 1 1/4"		Z
SPDCA 121H2016 RECIRC NONIMPACTING B LOOP	13960	1/2			03/22/92	2013	PASS C/S AF 1 1/4 AR 1 1/4		Z
SPDCA 124H 8 HPCI STM SUPPLY INSIDE	09742	1/4			03/15/92	1317	FAIL C/S AF 2 1/4 AR 2 1/4		Z
SPDCA 124H2005 HPCI STM SUPPLY INSIDE	27972	1/4			03/12/92	2145	PASS C/S AF N/A AR 1 7/8		Z
SPDCA 124H2006 HPCI STM SUPPLY INSIDE	21069	1/4			03/12/92 P/P-2'3"	2213	PASS C/S AF N/A AR 2		Z
SPDCA 124H2008 HPCI STM SUPPLY INSIDE	21074	1/4			03/12/92	1821	PASS C/S AF N/A AR 2 1/8		Z
SPDCA 126H 38 RHR/RECIRC S.P.NONIMPACTING	06254	1/4			04/02/92	1108	PASS C/S AF 2 1/4 AR 2 1/4		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 126H 39 RHR/RECIRC S.P.	23569 NONIMPACTING	1/4			04/02/92 P/P-4'7"	852	DEGRADE	C/S AF 2 AR 2	Z
SPDCA 126H 40 RHR/RECIRC S.P.	06255 NONIMPACTING	1/4			04/02/92	1141	PASS	C/S AF 2 AR 2	Z
SPDCA 126H 48 RHR/RECIRC S.P.	10915 NONIMPACTING	1/4			04/02/92	1342	PASS	C/S AF 2 1/4 AR 2 1/4	Z
SPDCA 126H 50 RHR/RECIRC S.P.	06329 NONIMPACTING	1/4			04/02/92	1124	PASS	C/S AF 2 1/4 AR 2 1/4	Z
SPDCA 126H 54 RHR/RECIRC S.P.	06277 NONIMPACTING	1/4			04/02/92	1322	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 126H 55 RHR/RECIRC S.P.	28970 NONIMPACTING	1/4			04/02/92 P/P-4'6"	919	FAIL	C/S AF 2 1/2 AR 2 1/2	Z
SPDCA 126H 63 RHR/RECIRC S.P.	35514 NONIMPACTING	1/4			04/01/92 P/P-2'6"	1609	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 126H 64 RHR/RECIRC S.P.	16416 NONIMPACTING	1/4			03/31/92	1802	PASS	C/S AF 1 5/8 AR 1 5/8	Z
SPDCA 126H 73 RHR/RECIRC S.P.	16424 NONIMPACTING	1/4			03/31/92	2008	PASS	C/S AF 1 3/8 AR 1 3/8	Z
SPDCA 126H 74 RHR/RECIRC S.P.	16425 NONIMPACTING	1/4			04/02/92 P/P-2'8"	735	PASS	C/S AF 2 1/2 AR 2 1/2	Z
SPDCA 126H 83 RHR/RECIRC S.P.	10942 NONIMPACTING	1/4			03/31/92	2025	PASS	C/S AF 3/4 AR 3/4	Z
SPDCA 126H2001 RHR/RECIRC S.P.	28760 NONIMPACTING	1/4			X	0			X
SPDCA 126H2002 RHR/RECIRC S.P.	16395 NONIMPACTING	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 126H2008	16427	1/4			03/31/92	144	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 0 AR 0	
SPDCA 126H2010	16384	1/4			03/31/92	238	PASS		Z
RHR/RECIRC S.P.NONIMPACTING					P/P-2'8"		C/S AF 1 7/8 AR 1 7/8		
SPDCA 126H2011	16417	1/4			04/01/92	1458	PASS		Z
RHR/RECIRC S.P.NONIMPACTING							C/S AF 1 3/4 AR 1 3/4		
SPDCA 126H2012	28856	1/4			03/30/92	2105	PASS		Z
RHR/RECIRC S.P.NONIMPACTING							C/S AF 1 5/8 AR 1 5/8		
SPDCA 126H2013	16419	1/4	F		03/31/92	2318	PASS		Z
RHR/RECIRC S.P.NONIMPACTING							C/S AF 1 3/4 AR 1 3/4		
SPDCA 126H2014	13116	1/4			03/31/92	116	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 2 AR 2	
SPDCA 126H2021	13099	1/4			03/31/92	1844	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 2 AR 2	
SPDCA 126H2029	06274	1/4			X	0			X
RHR/RECIRC S.P.NONIMPACTING									
SPDCA 126H2033	21148	1/4			04/02/92	1555	PASS		Z
RHR/RECIRC S.P.NONIMPACTING							C/S AF 2 1/4 AR 2 1/4		
SPDCA 126H2034	13433	1/2			03/31/92	2050	PASS		Z
RHR/RECIRC S.P.NONIMPACTING							C/S AF 1 1/4 AR 1 1/4		
SPDCA 126H2035	22875	1/4			03/31/92	1823	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 2 AR 2	
SPDCA 126H2036	22866	1/4			04/02/92	1619	PASS		Z
RHR/RECIRC S.P.NONIMPACTING					CHNGTO STRT,PP-2'7"		C/S AF 1 1/4 AR 1 1/4		
SPDCA 126H2037	23547	1/4			04/02/92	1207	PASS		Z
RHR/RECIRC S.P.NONIMPACTING							C/S AF 1 1/2 AR 1 1/2		

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AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 126H2041	22876	1/4			04/02/92	1513	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 1 1/2 AR 1 1/2	
SPDCA 126H2043	28732	1/4			04/02/92	1052	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 2 1/2 AR 2 1/2	
SPDCA 126H2047	22965	1/4			04/02/92	1035	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 2 1/4 AR 2 1/4	
SPDCA 127H 47	10914	1/4	S		03/21/92	1758	PASS		Z
MAIN STEAM 'B' INSIDE CONT								C/S AF 1 1/2 AR 1 1/2	
SPDCA 127H 51	05130	1/4	S		03/21/92	2020	PASS		Z
MAIN STEAM 'B' INSIDE CONT								C/S AF 1 3/4 AR 1 3/4	
SPDCA 127H 61	27978	1/4	S		03/17/92	251	PASS		Z
MAIN STEAM 'D' INSIDE CONT					P/P-3'2"			C/S AF 1 3/4 AR 1 3/4	
SPDCA 127H 62	23591	1/4			03/16/92	2146	PASS		Z
MAIN STEAM 'D' INSIDE CONT								C/S AF 2 1/4 AR 2 1/4	
SPDCA 127H 66	21132	1/4			03/17/92	40	PASS		Z
MAIN STEAM 'D' INSIDE CONT								C/S AF 2 1/4 AR 2 1/4	
SPDCA 127H 92	04088	1/4			03/16/92	912	PASS		Z
MAIN STEAM 'C' INSIDE CONT								C/S AF 1.5 AR 1.5	
SPDCA 127H 93	04080	1/4			03/16/92	849	PASS		Z
MAIN STEAM 'C' INSIDE CONT								C/S AF 2 1/4 AR 2 1/4	
SPDCA 127H 146	28864	1/4			03/20/92	2334	PASS		Z
MAIN STEAM 'A' INSIDE CONT								C/S AF 2 AR 2	
SPDCA 127H 148	13057	1/4			03/18/92	2138	PASS		Z
MAIN STEAM 'A' INSIDE CONT					P/P-2'7"			C/S AF 2 1/4 AR 2 1/4	
SPDCA 127H 151	10904	1/4			03/12/92	2013	PASS		Z
MAIN STEAM 'D' INSIDE CONT								C/S AF N/A AR 1 3/4	

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 127H 154 MAIN STEAM 'D' INSIDE CONT	27966	1/4			03/12/92	1901	PASS	C/S AF N/A AR 2"	Z
SPDCA 127H 155 MAIN STEAM 'D' INSIDE CONT	13105	1/4			03/12/92 P/P-3'9"	2334	FAIL	C/S AF N/A AR 2 1/4"	Z
SPDCA 127H 156 MAIN STEAM 'D' INSIDE CONT	04191	1/4			X	0			X
SPDCA 127H 158 MAIN STEAM 'A' INSIDE CONT	13437	1/2			03/16/92	812	PASS	C/S AF 1" AR 1"	Z
SPDCA 127H 161 MAIN STEAM 'D' INSIDE CONT	23571	1/4			X P/P 3'1 3/8"	0			X
SPDCA 127H 162 MAIN STEAM 'D' INSIDE CONT	27859	1/4			03/18/92 P/P-3'11"	1912	FAIL	C/S AF 2 AR 2	Z
SPDCA 127H 172 MAIN STEAM 'C' INSIDE CONT	09735	1/4			03/13/92 P/P-2'5"	55	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 127H 174 MAIN STEAM 'C' INSIDE CONT	13061	1/4			03/12/92	1938	PASS	C/S AF N/A AR 2 3/4	Z
SPDCA 127H 175 MAIN STEAM 'C' INSIDE CONT	13062	1/4			03/12/92 P/P-3'7"	2246	FAIL	C/S AF N/A AR 2 1/4	Z
SPDCA 127H 178 MAIN STEAM 'A' INSIDE CONT	28977	1/4			03/20/92	2052	PASS	C/S AF 2 1/2 AR 2 1/2	Z
SPDCA 127H2010 MAIN STEAM 'A' INSIDE CONT	13938	1/2			03/20/92	104	PASS	C/S AF 1 1/4 AR 1 1/4	Z
SPDCA 127H2012 MAIN STEAM 'A' INSIDE CONT	27861	1/4			03/16/92	1421	PASS	C/S AF 2.5 AR 2.5	Z
SPDCA 127H2015 MAIN STEAM 'A' INSIDE CONT	21127	1/4			03/16/92 P/P-1'11"	1455	PASS	C/S AF 2 1/8 AR 2 1/8	Z

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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 127H2036	13092	1/4			03/16/92	2210	PASS		Z
MAIN STEAM 'D'	INSIDE CONT						C/S AF 1 3/4 AR 1 3/4		
SPDCA 127H2045	13094	1/4			03/20/92	2036	PASS		Z
MAIN STEAM 'B'	INSIDE CONT						C/S AF 2 1/2 AR 2 1/2		
SPDCA 127H2047	16387	1/4			03/18/92	48	PASS		Z
MAIN STEAM 'B'	INSIDE CONT				P/P-2'3"		C/S AF 1 3/4 AR 1 3/4		
SPDCA 127H2049	21068	1/4			X	0			X
MAIN STEAM 'B'	INSIDE CONT								
SPDCA 127H2051	13091	1/4			03/17/92	21	PASS		Z
MAIN STEAM 'D'	INSIDE CONT						C/S AF 2 1/4 AR 2 1/4		
SPDCA 127H2054	22940	1/4			03/21/92	1728	PASS		Z
MAIN STEAM 'B'	INSIDE CONT				CHANGE TO STRUT		C/S AF 1 1/2 AR 1 1/2		
SPDCA 127H2056	13065	1/4			03/23/92	1111	PASS		Z
MAIN STEAM 'B'	INSIDE CONT				CHNG TO STRUT P/P 2'-2" C/S AF,AR 1 3/4"				
SPDCA 127H2058	13066	1/4			03/21/92	2321	PASS		Z
MAIN STEAM 'B'	INSIDE CONT				CHANGE TO STRUT		C/S AF 2 1/4 AR 2 1/4		
SPDCA 127H2065	13101	1/4			03/13/92	2313	PASS		Z
MAIN STEAM 'C'	INSIDE CONT							C/S AF 2 AR 2	
SPDCA 127H2070	27950	1/4			03/13/92	310	PASS		Z
MAIN STEAM 'D'	INSIDE CONT						C/S AF N/A AR 1 3/4		
SPDCA 127H2075	22906	1/4			03/13/92	338	PASS		Z
MAIN STEAM 'D'	INSIDE CONT				P/P-2'1"			C/S AF N/A AR 2	
SPDCA 127H2076	06244	1/4			03/16/92	2357	PASS		Z
MAIN STEAM 'D'	INSIDE CONT							C/S AF 2 AR 2	
SPDCA 127H2078	22928	1/4			03/14/92	831	PASS		Z
MAIN STEAM 'A'	INSIDE CONT						C/S AF 2 1/8" AR 2 1/8"		

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AS OF: 07/20/92 TIME: 11.11.32

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SPDCA 127H2079 MAIN STEAM 'A'	22929 INSIDE CONT	1/4			03/14/92	841	PASS	C/S AF 1" AR 1"	Z
SPDCA 127H2082 MAIN STEAM 'A'	13434 INSIDE CONT	1/2	S		03/16/92	849	PASS	C/S AF 1 AR 1	Z
SPDCA 127H2084 MAIN STEAM 'B'	27855 INSIDE CONT	1/4			03/21/92	2135	PASS	C/S AF 2 AR 2	Z
SPDCA 127H2085 MAIN STEAM 'B'	05082 INSIDE CONT	1/4			03/21/92	2048	PASS	C/S AF 2 1/2 AR 2 1/2	Z
SPDCA 127H2088 MAIN STEAM 'B'	22872 INSIDE CONT	1/4			03/21/92	1823	PASS	C/S AF 2 1/8 AR 2 1/8	Z
SPDCA 127H2092 MAIN STEAM 'B'	28747 INSIDE CONT	1/4			03/21/92	2107	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 127H2094 MAIN STEAM 'A'	13962 INSIDE CONT	1/2	S		03/20/92	158	PASS	C/S AF 1 AR 1	Z
SPDCA 127H2100 MAIN STEAM 'B'	13141 INSIDE CONT	1/4			03/19/92 P/P-2'10"	307	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 127H2101 MAIN STEAM 'B'	22986 INSIDE CONT	1/4			03/20/92	1925	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 127H2104 MAIN STEAM 'B'	22899 INSIDE CONT	1/4	S		03/20/92	2105	PASS	C/S AF 1 1/4 AR 1 1/4	Z
SPDCA 127H2105 MAIN STEAM 'B'	22900 INSIDE CONT	1/4			03/20/92	2111	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 127H2106 MAIN STEAM 'B'	21153 INSIDE CONT	1/4			03/20/92	1832	PASS	C/S AF 2 AR 2	Z
SPDCA 127H2109 MAIN STEAM 'A'	09722 INSIDE CONT	1/4			03/20/92	1903	PASS	C/S AF 1 1/4 AR 1 1/4	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 127H2112 MAIN STEAM 'A' INSIDE CONT	14383	1/4			03/20/92	2258	PASS	C/S AF 2 AR 2	Z
SPDCA 128H 50 MAIN STEAM 'C' INSIDE CONT	23544	1/4	S		03/22/92	15	PASS	C/S AF 2 AR 2	Z
SPDCA 128H 84 MAIN STEAM 'C'INSIDE CONT	10934	1/4	S		03/13/92	1742	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 128H 86 MAIN STEAM 'C' INSIDE CONT	10935	1/4			03/13/92	1607	PASS	C/S AF 2" AR 2"	Z
SPDCA 128H 96 MAIN STEAM 'B' INSIDE CONT	13055	1/4			03/13/92	2030	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 128H 97 MAIN STEAM 'B' INSIDE CONT	06307	1/4			03/13/92	2054	PASS	C/S AF 2 AR 2	Z
SPDCA 128H 98 MAIN STEAM 'B' INSIDE CONT	06301	1/4			03/13/92	1902	FAIL	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 128H 99 MAIN STEAM 'B' INSIDE CONT	13056	1/4			X	0			X
SPDCA 128H 110 MAIN STEAM 'C' INSIDE CONT	10937	1/4			03/23/92	2345	PASS	C/S AF 2 1/4 AR 2 1/4	Z
SPDCA 128H 114 MAIN STEAM 'D' INSIDE CONT	28812	1/4			04/01/92	1438	PASS	C/S AF 2 AR 2	Z
SPDCA 128H 117 MAIN STEAM 'D' INSIDE CONT	29319	1/4			04/01/92	1359	FAIL	C/S AF 2 1/2 AR 2 1/2	Z
SPDCA 128H 124 MAIN STEAM 'D' INSIDE CONT	28881	1/4			03/13/92	2211	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 128H 125 MAIN STEAM 'D' INSIDE CONT	27854	1/4			03/13/92	2140	PASS	C/S AF 2 1/2 AR 2 1/2	Z

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SPDCA 128H 127 MAIN STEAM 'D' INSIDE CONT	23359	1/4			X	0			X
SPDCA 128H 130 MAIN STEAM 'A' INSIDE CONT	05161	1/4			04/02/92 CHNG TO STRT PP3'0"C/S AF 2 1/2 AR 2 1/2	1639	DEGRADE		Z
SPDCA 128H 131 MAIN STEAM 'A' INSIDE CONT	13103	1/4			04/02/92	1443	PASS C/S AF 2 1/2 AR 2 1/2		Z
SPDCA 128H 136 MAIN STEAM 'A' INSIDE CONT	27922	1/4			03/22/92	142	PASS	C/S AF 2 AR 2	Z
SPDCA 128H 138 MAIN STEAM 'A' INSIDE CONT	10948	1/4			X	0			X
SPDCA 128H2016 MAIN STEAM 'A' INSIDE CONT	27965	1/4			04/09/92	1522	PASS C/S AF 2 1/2 AR 2 1/2		Z
SPDCA 128H2018 MAIN STEAM 'A' INSIDE CONT	14425	1/4			03/22/92	1424	PASS C/S AF 2.25 AR 2.25		Z
SPDCA 128H2019 MAIN STEAM 'C' INSIDE CONT	14344	1/4			03/15/92 CHANGE TO STRUT	1041	PASS C/S AF 2 1/4 AR 2 1/4		Z
SPDCA 128H2023 MAIN STEAM 'B' INSIDE CONT	13100	1/4			03/13/92	1855	PASS C/S AF 1 3/4 AR 1 3/4		Z
SPDCA 128H2025 MAIN STEAM 'B' INSIDE CONT	23545	1/4			03/23/92	56	PASS C/S AF 1 3/4 AR 1 3/4		Z
SPDCA 128H2026 MAIN STEAM 'B' INSIDE CONT	28009	1/4			03/22/92	2114	PASS C/S AF 1 3/4 AR 1 3/4		Z
SPDCA 128H2027 MAIN STEAM 'B' INSIDE CONT	13077	1/4			04/10/92	811	PASS C/S AF 1.75 AR 1.75		Z
SPDCA 128H2030 MAIN STEAM 'B' INSIDE CONT	22997	1/4			04/13/92 P/P-3'5"	1325	FAIL	C/S AF 2 AR 2	Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 128H2031	14374	1/4			04/14/92	801	FAIL		Z
MAIN STEAM 'B' INSIDE CONT					P/P-3'1"			C/S AF 2.25 AR 2.25	
SPDCA 128H2032	13081	1/4			X	0			X
MAIN STEAM 'B' INSIDE CONT									
SPDCA 128H2033	23590	1/4			04/10/92	836	PASS		Z
MAIN STEAM 'B' INSIDE CONT					CHANGE TO STRUT			C/S AF 2 AR 2	
SPDCA 128H2061	13931	1/2			X	0			X
MAIN STEAM 'C' INSIDE CONT					P/P 1'10 5/8"				
SPDCA 128H2062	22912	1/4		92-127	03/15/92	1112	FAIL		Z
MAIN STEAM 'C' INSIDE CONT								C/S AF 1 1/4 AR 1 1/4	
SPDCA 128H2068	03477	1			03/23/92	216	PASS		Z
MAIN STEAM 'C' INSIDE CONT								C/S AF 2 1/2 AR 2 1/2	
SPDCA 129H 3	22914	1/4			04/09/92	1524	PASS		Z
RCIC STM SUPPLY INSIDE					CHANGE TO STRUT			C/S AF 2 AR 2	
SPDCA 129H 4	04640	1/4	S		03/24/92	1046	PASS		Z
RCIC STM SUPPLY INSIDE					CHANGE TO STRUT			C/S AF 2 AR 2	
SPDCA 129H 7	13140	1/4			04/08/92	1526	PASS		Z
RCIC STM SUPPLY INSIDE					CHANGE TO STRUT			C/S AF 2 AR 2	
SPDCA 129H 8	04072	1/4	S		03/24/92	1025	PASS		Z
RCIC STM SUPPLY INSIDE								C/S AF 1.5 AR 1.5	
SPDCA 129H2002	27949	1/4			04/09/92	736	PASS		Z
RCIC STM SUPPLY INSIDE					CHANGE TO STRUT			C/S AF 2 AR 2	
SPDCA 129H2007	23355	1/4			04/09/92	1440	PASS		Z
RCIC STM SUPPLY INSIDE					P/P-1'10"			C/S AF 2 AR 2	
SPDCA 129H2011	04684	1/4			04/09/92	1549	PASS		Z
RCIC STM SUPPLY INSIDE					CHANGE TO STRUT			C/S AF 1.5 AR 1.5	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 129H2014 RCIC STM SUPPLY INSIDE	13934	1/2			04/09/92	806	PASS C/S AF 1 1/2 AR 1 1/2		Z
SPDCA 130H 2 RCIC STM SUPPLY INSIDE	23358	1/4			04/14/92 P/P-2'11"	1032	PASS C/S AF 1.75 AR 1.75		Z
SPDCA 130H 29 RCIC STM SUPPLY INSIDE	23548	1/4	S		03/24/92 CHNG TO STRUT,P/P-3'8"	1110	PASS C/S AF 1.5 AR 1.5		Z
SPDCA 130H 33 RCIC STM SUPPLY INSIDE	28939	1/4			04/09/92 CHANGE TO STRUT	1502	PASS C/S AF 2 AR 2		Z
SPDCA 130H 36 RCIC STM SUPPLY INSIDE	06273	1/4	S		03/24/92	925	PASS C/S AF 2 AR 2		Z
SPDCA 130H 38 RCIC STM SUPPLY INSIDE	28865	1/4			04/09/92	1541	PASS C/S AF 1 1/2 AR 1 1/2		Z
SPDCA 130H2000 RCIC STM SUPPLY INSIDE	22892	1/4			04/09/92	1603	PASS C/S AF 2 1/4 AR 2 1/4		Z
SPDCA 130H2001 RCIC STM SUPPLY INSIDE	13463	1/2	S		03/24/92	1001	PASS C/S AF 1 1/2" AR 1.25"		Z
SPDCA 130H2002 RCIC STM SUPPLY INSIDE	28884	1/4			04/14/92 P/P-3'5"	907	PASS C/S AF 2 AR 2		Z
SPDCA 130H2003 RCIC STM SUPPLY INSIDE	28916	1/4			04/14/92 P/P-2'4"	1256	PASS C/S AF 2 AR 2		Z
SPDCA 130H2004 RCIC STM SUPPLY INSIDE	22917	1/4			04/14/92 P/P-3'5"	1105	PASS C/S AF 2 AR 2		Z
SPDCA 131H 5 CORE SPRAY 'A' LOOP DISCH	13083	1/4			X	0			X
SPDCA 131H 14 CORE SPRAY 'A' LOOP DISCH	10926	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 131H 19 CORE SPRAY 'A' LOOP DISCH	16396	1/4			X	0			X
SPDCA 131H 21 CORE SPRAY 'A' LOOP DISCH	23554	1/4			X	0			X
SPDCA 131H2001 CORE SPRAY 'B' LOOP DISCH	13108	1/4			X	0			X
SPDCA 131H2003 CORE SPRAY 'B' LOOP DISCH	23008	1/4			X	0			X
SPDCA 131H2005 CORE SPRAY 'B' LOOP DISCH	23025	1/4			X P/P 3'8 1/4"	0			X
SPDCA 131H2008 CORE SPRAY 'B' LOOP DISCH	13087	1/4			X	0			X
SPDCA 131H2009 CORE SPRAY 'B' LOOP DISCH	13088	1/4			X	0			X
SPDCA 131H2020 CORE SPRAY 'B' LOOP DISCH	28858	1/4			X	0			X
SPDCA 131H2025 CORE SPRAY 'B' LOOP DISCH	06291	1/4			X	0			X
SPDCA 131H2031 CORE SPRAY 'B' LOOP DISCH	06238	1/4			X	0			X
SPDCA 131H2037 CORE SPRAY 'A' LOOP DISCH	29018	1/4			X	0			X
SPDCA 131H2039 CORE SPRAY 'A' LOOP DISCH	22881	1/4			X	0			X
SPDCA 131H2040 CORE SPRAY 'B' LOOP DISCH	28936	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 131H2042 CORE SPRAY 'B' LOOP DISCH	21136	1/4			X P/P 2' 2 3/4"	0			X
SPDCA 131H2043 CORE SPRAY 'B' LOOP DISCH	21142	1/4			X P/P 3'7 7/16"	0			X
SPDCA 131H2044 CORE SPRAY 'B' LOOP DISCH	21157	1/4			X P/P 5'0"	0			X
SPDCA 132H 1 HPCI STM SUPPLY INSIDE	29314	1/4			X	0			X
SPDCA 132H 2 HPCI STM SUPPLY INSIDE	27967	1/4	S		03/15/92	1131	PASS	C/S AF 2 AR 2	Z
SPDCA 132H 23 HPCI STM SUPPLY INSIDE	06278	1/4	S		03/15/92	2354	PASS	C/S AF 2 1/4 AR 2 1/4	Z
SPDCA 132H 24 HPCI STM SUPPLY INSIDE	28917	1/4			03/16/92	22	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCA 132H2002 HPCI STM SUPPLY INSIDE	22879	1/4			03/15/92	311	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 132H2003 HPCI STM SUPPLY INSIDE	21124	1/4			03/15/92	249	PASS	C/S AF 2 1/8 AF 2 1/8	Z
SPDCA 132H2007 HPCI STM SUPPLY INSIDE	21091	1/4			03/15/92	2135	PASS	C/S AF 2 1/8 AR 2 1/8	Z
SPDCA 132H2008 HPCI STM SUPPLY INSIDE	28813	1/4			03/15/92	2156	PASS	C/S AF 2 AR 2	Z
SPDCA 132H2010 HPCI STM SUPPLY INSIDE	06276	1/4			03/15/92	1447	DEGRADE	C/S AF 1 7/8 AR 1 7/8	Z
SPDCA 132H2011 HPCI STM SUPPLY INSIDE	16429	1/4			03/15/92	1359	PASS	C/S AF 1 5/8 AR 1 5/8	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 132H2013 HPCI STM SUPPLY INSIDE	14347	1/4			03/15/92	1418	PASS	C/S AF 2 AR 2	Z
SPDCA 133H2001 RWCU SUCT INSIDE CONT	27954	1/4			X	0			X
SPDCA 134H2012A RWCU SUCT INSIDE CONT	16362	1/4			X	0			X
SPDCA 134H2012B RWCU SUCT INSIDE CONT	16361	1/4			X	0			X
SPDCA 135H2001A UNDER VESSEL NONIMPACTING	13414	1/2			X	0			X
SPDCA 135H2001B UNDER VESSEL NONIMPACTING	13415	1/2			X	0			X
SPDCA 135H2002 UNDER VESSEL NONIMPACTING	23039	1/4			X	0			X
SPDCA 136H 29 JET PP DIV I IMPACTING	16393	1/4			X	0			X
SPDCA 136H2005 JET PP DIV I IMPACTING	28736	1/4			X	0			X
SPDCA 136H2010A JET PP DIV I IMPACTING	28722	1/4			X	0			X
SPDCA 136H2010B JET PP DIV I IMPACTING	22945	1/4			X	0			X
SPDCA 136H2021 JET PP DIV II IMPACTING	09934	1/2			X	0			X
SPDCA 136H2027 JET PP NONIMPACTING	13967	1/2			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 136H2035 JET PP DIV II IMPACTING	22873	1/4			X	0			X
SPDCA 136H2042 JET PP DIV II IMPACTING	29014	1/4			X	0			X
SPDCA 136H2043 JET PP DIV II IMPACTING	09728	1/4			X	0			X
SPDCA 136H2047 JET PP DIV I IMPACTING	13933	1/2			X	0			X
SPDCA 136H2048 JET PP DIV I IMPACTING	13932	1/2			X	0			X
SPDCA 136H2059 JET PP DIV II IMPACTING	13947	1/2			X	0			X
SPDCA 137H 4 1C004 LOW PRESS ECCS IMPACT	28857	1/4	C		03/31/92 P/P-1'7"	1728	FAIL C/S AF 1 3/4 AR 1 3/4		Z
SPDCA 137H 5 1C004 LOW PRESS ECCS IMPACT	28746	1/4	C		04/01/92 P/P-2'8"	821	FAIL C/S AF 2.25 AR 2		Z
SPDCA 137H 6 1C004 LOW PRESS ECCS IMPACT	16413	1/4	CF		04/01/92 P/P-2'1"	737	PASS C/S AF 1.75 AR 1.75		Z
SPDCA 137H 16 1C005 LOW PRESS ECCS IMPACT	21110	1/4	C		04/09/92 P/P-1'5"	826	PASS C/S AF 1 1/2 AR 1 1/2		Z
SPDCA 137H 19 1C005 LOW PRESS ECCS IMPACT	28738	1/4	C		04/08/92	1507	PASS C/S AF 3 3/8 AR 3 3/8		Z
SPDCA 137H 20 1C005 LOW PRESS ECCS IMPACT	23552	1/4	CF		04/09/92 P/P-2'3"	909	FAIL C/S AF 1 1/2 AR 1 1/2		Z
SPDCA 138H 2 1C005 NOIMPCT TO LOW PRES ECCS	16439	1/4	C		04/09/92 P/P-2'11"	934	PASS C/S AF 2 3/4 AR 2 3/4		Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 138H 4	28728	1/4	C		04/08/92	1432	PASS		Z
1C005 NOIMPCT TO LOW PRES ECCS							C/S AF 2 1/2 AR 2 1/2		
SPDCA 138H 14	28788	1/4	C		04/04/92	1057	PASS		Z
1C004 NOIMPCT TO LOW PRES ECCS					P/P-2'1"		C/S AF 1 3/4 AR 1 3/4		
SPDCA 138H 15	28860	1/4	C		04/04/92	1038	PASS		Z
C1004 NOIMPCT TO LOW PRES ECCS					P/P-2'4"		C/S AF 1 1/2 AR 1 1/2		
SPDCA 138H 16	27970	1/4	C		04/04/92	1019	PASS		Z
1C004 NOIMPCT TO LOW PRES ECCS					P/P-2'6"		C/S AF 2 1/2 AR 2 1/2		
SPDCA 138H 21	28720	1/4	C		04/08/92	1452	PASS		Z
1C005 NOIMPCT TO LOW PRES ECCS								C/S AF 2 AR 2	
SPDCA 138H 22	29019	1/4			04/08/92	1309	PASS		Z
1C005 NOIMPCT TO LOW PRES ECCS							C/S AF 2 1/2 AR 2 1/2		
SPDCA 138H 23	06259	1/4			04/08/92	1250	PASS		Z
C1055 NOIMPCT TO LOW PRES ECCS							C/S AF 1 1/4 AR 1 1/4		
SPDCA 138H 24	06319	1/4			04/08/92	1333	PASS		Z
1C005 NOIMPCT TO LOW PRES ECCS							C/S AF 1 3/4 AR 1 3/4		
SPDCA 138H 25	27960	1/4	F		04/08/92	1412	PASS		Z
1C005 NOIMPCT LOW PRES TO ECCS							C/S AF 2 5/8 AR 2 5/8		
SPDCA 138H2001	22981	1/4			03/30/92	2045	PASS		Z
1C004 NOIMPCT TO LOW PRES ECCS								C/S AF 2 AR 2	
SPDCA 138H2003	23012	1/4			04/08/92	1354	PASS		Z
1C005 NOIMPCT TO LOW PRES ECCS							C/S AF 1 3/4 AR 1 3/4		
SPDCA 139H 14	28861	1/4			X	0			X
SBLC INSIDE CONT									
SPDCA 140H 14	27856	1/4	C		04/06/92	1334	PASS		Z
1C005 LOW PRESS ECCS IMPACT					P/P-2'6"			C/S AF 2 AR 2	

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

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SPDCA 140H 16 1C004 LOW PRESS ECCS IMPACT	28737	1/4	C		03/30/92	2001	PASS	C/S AF 3 AR 3	Z
SPDCA 140H 18 1C004 LOW PRESS ECCS IMPACT	22982	1/4			03/30/92	2126	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 140H2000 1C005 LOW PRESS ECCS IMPACT	21141	1/4			04/06/92 P/P-2'7"	1316	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCA 143H2001 RECIRC NONIMPACTING B LOOP	21144	1/4			X P/P 2'4"	0			X
SPDCA 143H2006 RECIRC NONIMPACTING B LOOP	17231	1			X P/P 2'2 7/8"	0			X
SPDCA 143H2011 RECIRC NONIMPACTING B LOOP	28978	1/4			X P/P 3'11 1/4"	0			X
SPDCA 143H2012 RECIRC NONIMPACTING B LOOP	18393	1			X P/P 4'10 1/2"	0			X
SPDCA 144H 5 JET PP NONIMPACTING	06288	1/4			X	0			X
SPDCA 144H 9 JET PP NONIMPACTING	05600	1/2			X	0			X
SPDCA 144H 28 JET PP NONIMPACTING	23357	1/4			X	0			X
SPDCA 144H 53 JET PP NONIMPACTING	16380	1/4			X	0			X
SPDCA 144H 55 JET PP NONIMPACTING	27963	1/4			X	0			X
SPDCA 144H 87 JET PP NONIMPACTING	14354	1/4			X P/P 1'10 1/2"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
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SPDCA 144H 105 JET PP NONIMPACTING	09701	1/4			X P/P 2'4 3/4"	0			X
SPDCA 144H 142 JET PP NONIMPACTING	16392	1/4			X	0			X
SPDCA 144H 144 JET PP NONIMPACTING	16391	1/4			X	0			X
SPDCA 144H 148 JET PP NONIMPACTING	29008	1/4			X	0			X
SPDCA 144H 150 JET PP NONIMPACTING	27959	1/4			X	0			X
SPDCA 144H2021A JET PP NONIMPACTING	16377	1/4			X	0			X
SPDCA 144H2021B JET PP NONIMPACTING	16378	1/4			X	0			X
SPDCA 144H2027 JET PP NONIMPACTING	09747	1/4			X	0			X
SPDCA 144H2034 JET PP NONIMPACTING	13112	1/4			X	0			X
SPDCA 144H2036A JET PP NONIMPACTING	10753	1/2			X	0			X
SPDCA 144H2036B JET PP NONIMPACTING	10747	1/2			X	0			X
SPDCA 144H2042 JET PP NONIMPACTING	05603	1/2			X	0			X
SPDCA 144H2049 JET PP NONIMPACTING	06669	1/2			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 144H2053 JET PP NONIMPACTING	21151	1/4			X P/P 5'0 15/16"	0			X
SPDCA 144H2057 JET PP NONIMPACTING	13966	1/2			X	0			X
SPDCA 144H2074 JET PP NONIMPACTING	23010	1/4			X	0			X
SPDCA 144H2076 JET PP NONIMPACTING	20960	1/4			X	0			X
SPDCA 144H2077 JET PP NONIMPACTING	28018	1/4			X	0			X
SPDCA 144H2078 JET PP NONIMPACTING	21112	1/4			X	0			X
SPDCA 144H2080 JET PP NONIMPACTING	21130	1/4			X	0			X
SPDCA 144H2084 JET PP NONIMPACTING	13080	1/4			X	0			X
SPDCA 144H2085 JET PP NONIMPACTING	10740	1/2			X	0			X
SPDCA 144H2087 JET PP NONIMPACTING	01619	1/2			X	0			X
SPDCA 144H2091 JET PP NONIMPACTING	09938	1/2			X	0			X
SPDCA 144H2094 JET PP NONIMPACTING	29010	1/4			X	0			X
SPDCA 144H2101 JET PP NONIMAPCTING	28783	1/4			X	0			X

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AS OF: 07/20/92 TIME: 11.11.32

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SPDCA 144H2102 JET PP NONIMPACTING	06295	1/4			X	0			X
SPDCA 144H2105 JET PP NONIMPACTING	13447	1/2			X	0			X
SPDCA 144H2108 JET PP NONIMPACTING	22904	1/4			X	0			X
SPDCA 144H2116 JET PP NONIMPACTING	13451	1/2			X P/P 2'0 1/2"	0			X
SPDCA 144H2118 JET PP NONIMPACTING	13937	1/2			X	0			X
SPDCA 144H2122 JET PP NONIMPACTING	14388	1/2			X P/P 1'11 1/2"	0			X
SPDCA 144H2125 JET PP NONIMPACTING	13454	1/2			X	0			X
SPDCA 144H2127 JET PP NONIMPACTING	13449	1/2			X P/P 2'4 1/2"	0			X
SPDCA 144H2129 JET PP NONIMPACTING	13453	1/2			X	0			X
SPDCA 144H2133 JET PP NONIMPACTING	13474	1/2			X P/P 2'6 1/2"	0			X
SPDCA 144H2136 JET PP NONIMPACTING	13925	1/2			X	0			X
SPDCA 144H2137 JET PP NONIMPACTING	27947	1/4			X	0			X
SPDCA 144H2141 JET PP NONIMPACTING	13956	1/2			X	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 144H2143 JET PP NONIMPACTING	13448	1/2			X P/P 2'6 5/8"	0			X
SPDCA 144H2145 JET PP NONIMPACTING	13954	1/2			X	0			X
SPDCA 144H2149 JET PP NONIMPACTING	13413	1/2			X P/P 1'9 3/4"	0			X
SPDCA 144H2150 JET PP NONIMPACTING	13927	1/2			X	0			X
SPDCA 144H2155 JET PP NONIMPACTING	13476	1/2			X	0			X
SPDCA 144H2156 JET PP NONIMPACTING	13442	1/2			X P/P 2'10 1/8"	0			X
SPDCA 144H2161 JET PP NONIMPACTING	13464	1/2			X P/P 2'6 3/8"	0			X
SPDCA 144H2163A JET PP NONIMPACTING	13405	1/2			X P/P 2'8"	0			X
SPDCA 144H2163B JET PP NONIMPACTING	13406	1/2			X P/P 2'8"	0			X
SPDCA 144H2164A JET PP NONIMPACTING	13427	1/2			X	0			X
SPDCA 144H2164B JET PP NONIMPACTING	13425	1/2			X	0			X
SPDCA 144H2166 JET PP NONIMPACTING	13458	1/2			X P/P 2'2 3/4"	0			X
SPDCA 144H2171 JET PP NONIMPACTING	13928	1/2			X	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 144H2172 JET PP NONIMPACTING	13459	1/2			X	0			X
SPDCA 144H2173 JET PP NONIMPACTING	13465	1/2			X P/P 2'6 9/16"	0			X
SPDCA 144H2175 JET PP NONIMPACTING	13477	1/2			X	0			X
SPDCA 144H2176 JET PP NONIMPACTING	13441	1/2			X	0			X
SPDCA 144H2178 JET PP NONIMPACTING	13926	1/2			X	0			X
SPDCA 144H2179 JET PP NONIMPACTING	13929	1/2			X P/P 1'6 3/4"	0			X
SPDCA 144H2220 JET PP NONIMPACTING	23601	1/4			X P/P 1'8 7/8"	0			X
SPDCA 144H2221 JET PP NONIMPACTING	13445	1/2			X	0			X
SPDCA 144H2223 JET PP NONIMPACTING	23029	1/4		Y10226	X P/P 2'3 3/4"	0			X
SPDCA 145H 5 HEAD VENT IN CONT	14328	1/4	S		03/14/92 CLAMP REMOVED	2336	PASS C/S AF 2 1/4 AR 2 1/4		Z
SPDCA 145H 13 VESSEL SPIDER	09730	1/4			04/10/92 CHANGE TO SWAY STRUT	730	PASS C/S AF 2.5 AR 2.5		Z
SPDCA 145H 17 VESSEL SPIDER	06668	1/2	S		03/22/92 CLAMP REMOVED	1811	PASS C/S AF 1 3/4 AR 1 3/4		Z
SPDCA 145H 18 VESSEL SPIDER	13063	1/4			03/20/92 CLAMP REMOVED	50	PASS C/S AF 1 1/2 AR 1 1/2		Z

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 145H 49 VESSEL SPIDER	05013	1			X	0			X
SPDCA 145H 52 VESSEL SPIDER	27955	1/4			X P/P 1'11 11/16"	0			X
SPDCA 145H 55 VESSEL SPIDER	27944	1/4	S		03/23/92 CLMP REMVD P/P-1'7"C/S AF 1 1/2 AR 1 1/2	1330	PASS		Z
SPDCA 145H 56 VESSEL SPIDER	27948	1/4	S		03/23/92 CLMP RMVD.P/P-3'11"C/S AF 1 5/8 AR 1 5/8	934	PASS		Z
SPDCA 146H 4 MAIN STEAM LEAKAGE CONTROL	16411	1/4			X	0			X
SPDCA 147H 7 MAIN STEAM LEAKAGE CONTROL	13102	1/4			X	0			X
SPDCA 147H 12 MAIN STEAM LEAKAGE CONTROL	13046	1/4			X	0			X
SPDCA 148H2007 MAIN STEAM LEAKAGE CONTROL	13945	1/2			X	0			X
SPDCA 148H2008 MAIN STEAM LEAKAGE CONTROL	03868	1/2			X	0			X
SPDCA 148H2009 MAIN STEAM LEAKAGE CONTROL	13950	1/2			X	0			X
SPDCA 148H2010 MAIN STEAM LEAKAGE CONTROL	13949	1/2			X	0			X
SPDCA 149H2003 MAIN STEAM LEAKAGE CONTROL	22889	1/4			X P/P 3'0 13/16"	0			X
SPDCA 149H2004 MAIN STEAM LEAKAGE CONTROL	13468	1/2			X P/P10"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCA 149H2006 MAIN STEAM LEAKAGE CONTROL	22895	1/4			X	0			X
SPDCB 101H 26 SBLC OUTSIDE CONT	28940	1/4			X P/P 2'4 1/2"	0			X
SPDCB 101H 46 SBLC OUTSIDE CONT	16436	1/4			X	0			X
SPDCB 105H 3 RECIRC NONIMPACTING A LOOP	14361	1/4	S		03/18/92	103	PASS	C/S AF 2 AR 2	Z
SPDCB 105H 5 RECIRC NONIMPACTING A LOOP	14362	1/4	S		03/18/92	44	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCB 105H 8 RECIRC NONIMPACTING A LOOP	14363	1/4			03/18/92	22	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCB 105H 10 RECIRC NONIMPACTING A LOOP	13131	1/4	F		03/17/92	2239	PASS	C/S AF 2 AR 2	Z
SPDCB 105H 11A RECIRC NONIMPACTING A LOOP	14370	1/4		92-078	03/20/92	1619	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCB 105H 11B RECIRC NONIMPACTING A LOOP	14367	1/4			03/20/92	1602	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCB 105H 12 RECIRC NONIMPACTING A LOOP	14368	1/4			03/17/92	1950	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCB 105H2000 RECIRC NONIMPACTING A LOOP	28859	1/4			03/18/92	2	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCB 105H2001 RECIRC NONIMPACTING A LOOP	21088	1/4			03/18/92 P/P-4'9"	1824	DEGRADE	C/S AF 2 AR 2	Z
SPDCB 105H2003 RECIRC NONIMPACTING A LOOP	14365	1/4			03/17/92	2116	PASS	C/S AF 1 1/2 AR 1 1/2	Z

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCB 105H2006 RECIRC NONIMPACTING A LOOP	22903	1/4			03/17/92	1925	PASS	C/S AF 2 1/4 AR 2 1/4	Z
SPDCB 106H 20 RECIRC NONIMPACTING B LOOP	29316	1/4			04/02/92 P/P-2'1"	758	PASS	C/S AF 1 3/4 AR 1 3/4	Z
SPDCB 106H 21 RECIRC NONIMPACTING B LOOP	22905	1/4			04/01/92	1541	PASS	C/S AF 1 1/2 AR 1 1/2	Z
SPDCB 106H2013 RECIRC NONIMPACTING B LOOP	23588	1/4			04/01/92	1520	PASS	C/S AF 1 1/4 AR 1 1/4	Z
SPDCB 106H2014 RECIRC NONIMPACTING B LOOP	13047	1/4			04/01/92	1445	PASS	C/S AF 2.25 AR 2.25	Z
SPDCB 106H2018 RECIRC NONIMPACTING B LOOP	28792	1/4			04/01/92	1544	PASS	C/S AF 2 AR 2	Z
SPDCB 106H2020 RECIRC NONIMPACTING B LOOP	05056	1/4			04/02/92	1405	PASS	C/S AF 2 AR 2	Z
SPDCB 106H2022 RECIRC NONIMPACTING B LOOP	04725	1/4			X	0			X
SPDCB 106H2027 RECIRC NONIMPACTING B LOOP	22934	1/4			04/01/92	1510	PASS	C/S AF 2.5 AR 2.5	Z
SPDCB 106H2028 RECIRC NONIMPACTING B LOOP	14373	1/2			04/02/92 P/P-1'8"	819	PASS	C/S AF 3/4 AR 3/4	Z
SPDCB 108H2015 RECIRC NONIMPACTING B LOOP	18581	1			X P/P 1'9 3/4"	0			X
SPDCB 111H2011 RECIRC NONIMPACTING A LOOP	18552	1			X P/P 2'11 1/2"	0			X
SPDCB 111H2012 RECIRC NONIMPACTING A LOOP	16408	1/4			X P/P 3'1 1/4"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCB 112H 50	06241	1/4			04/06/92	746	PASS		Z
1C005 LOW PRESS ECCS IMPACT							C/S AF 1 3/4 AR 1 3/4		
SPDCB 112H2003	23599	1/4			X	0			X
1C005 LOW PRESS ECCS IMPACT					P/P 3'0"				
SPDCB 112H2014	13942	1/2			X	0			X
1C005 LOW PRESS ECCS IMPACT									
SPDCB 112H2026	13098	1/4			04/05/92	1004	PASS		Z
1C005 NOIMPCT TO LOW PRES ECCS								C/S AF 2 AR 2	
SPDCB 112H2041	10906	1/4			03/30/92	2148	PASS		Z
1C004 NOIMPCT TO LOW PRES ECCS							C/S AF 2 1/2 AR 2 1/2		
SPDCB 112H2044	23584	1/4			03/31/92	14	PASS		Z
1C004 NOIMPCT LOW PRES ECCS							C/S AF 1 3/4 AR 1 3/4		
SPDCB 112H2046	16423	1/4			04/06/92	829	PASS		Z
1C005 LOW PRESS ECCS IMPACT					P/P-2'8"			C/S AF 2 AR 2	
SPDCB 112H2048	04208	1/4			04/06/92	807	PASS		Z
1C005 RACK IMPCT LOW PRES ECCS								C/S AF 2 AR 2	
SPDCB 112H2071	22911	1/4			03/31/92	211	PASS		Z
1C004 NOIMPCT LOW PRES ECCS					P/P-2'6"			C/S AF 2 AR 2	
SPDCB 112H2075	22910	1/4			03/30/92	1840	PASS		Z
1C004 NOIMPCT LOW PRES ECCS							C/S AF 1 3/4 AR 1 3/4		
SPDCB 112H2089	27863	1/4			X	0			X
JET PP DIV II IMPACTING									
SPDCB 112H2094	22861	1/4			X	0			X
JET PMP DIV 1 IMPACTING									
SPDCB 112H2098	20958	1/4			X	0			X
JET PP DIV II IMPACTING									

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPDCB 120H2001	06321	1/4		92-078	03/22/92	1330	PASS	C/S AF .75 AR .75	Z
RECIRC NONIMPACTING A LOOP									
SPDCB 120H2002	13957	1/2	R		03/22/92	1650	PASS	C/S AF .75 AR .75	Z
RECIRC NONIMPACTING A LOOP									
SPDCB 120H2003	14409	1/4			03/21/92	2348	PASS	C/S AF 1 1/2 AR 1 1/2	Z
RECIRC NONIMPACTING A LOOP									
SPDCB 120H2008	14410	1/4			03/22/92	224	PASS	C/S AF 2 1/4 AR 2 1/4	Z
RECIRC NONIMPACTING A LOOP									
SPDCB 121H 9	29318	1/4			X	0			X
RECIRC NONIMPACTING B LOOP									
SPDCB 121H 10	14415	1/4			03/23/92 P/P-3'3"	2352	PASS	C/S AF 1 1/2 AR 1 1/2	Z
RECIRC NONIMPACTING B LOOP									
SPDCB 121H2001	14329	1/4			03/23/92	1843	FAIL	C/S AF 2 1/4 AR 2 1/4	Z
RECIRC NONIMPACTING B LOOP									
SPDCB 121H2003	14330	1/4			03/23/92	2134	PASS	C/S AF 1 3/4 AR 1 3/4	Z
RECIRC NONIMPACTING B LOOP									
SPDCB 121H2008	22941	1/4			03/23/92	2103	PASS	C/S AF 2 3/4 AR 2 3/4	Z
RECIRC NONIMPACTING B LOOP									
SPDCB 121H2009	00120	1L	F		03/24/92 P/P-3'7"	1546	PASS	C/S AF 2 1/2 AR 2 1/2	Z
RECIRC NONIMPACTING B LOOP									
SPEBD 114H2011	05606	1/2			X	0			X
HPCI STM SUPPLY OUTSIDE									
SPGBB 101H2002	09935	1/2			X	0			X
CORE SPRAY 'A' LOOP DISCH									
SPGBB 101H2022	05004	1			X	0			X
CORE SPRAY 'A' LOOP DISCH									

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPGBB 104H2011 DIV I LPCI/SDC RHR	09725	1/4			X	0			X
SPGBB 104H2013 DIV I LPCI/SDC RHR	06242	1/4			03/17/92 PUMP MOD	842	PASS	C/S AF 2 1/6 AR 2 1/6	03/24/92
SPGBB 104H2018 DIV I LPCI/SDC RHR	05078	1/4			03/17/92 PMP MOD,P/P4'6 7/16" CS AF & AR 2 1/16"	1304	PASS		03/24/92
SPGBB 105H 15 DIV II LPCI/SDC RHR	13959	1/2			X	0			X
SPGBB 105H2009 DIV II LPCI/SDC RHR	22860	1/4			X	0			X
SPGBB 105H2010 DIV II LPCI/SDC RHR	13428	1/2			X P/P 3'0 15/16"	0			X
SPGBB 105H2018 DIV I LPCI/SDC RHR	20825	1			X	0			X
SPGBB 105H2019 DIV I LPCI/SDC RHR	13446	1/2			X	0			X
SPGBB 105H2026 DIV I LPCI/SDC RHR	06240	1/4			X	0			X
SPGBB 105H2037 DIV I LPCI/SDC RHR	19505	3			X P/P 3'2 3/8"	0			X
SPGBB 106H 2 DIV I LPCI/SDC RHR	23059	1/4			X	0			X
SPGBB 106H 5 DIV I LPCI/SDC RHR	27924	1/4			X	0			X
SPGBB 106H 6 DIV I LPCI/SDC RHR	21147	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPGBB 106H 8 DIV II LPCI/SDC RHR	04321	1/4			X P/P 3'0 1/8"	0			X
SPGBB 106H 11 DIV II LPCI/SDC RHR	17238	1/2			X	0			X
SPGBB 106H 12 DIV II LPCI/SDC RHR	23058	1/4			X	0			X
SPGBB 110H2015 DIV I LPCI/SDC RHR	21066	1/4			X	0			X
SPGBB 110H2018 DIV I LPCI/SDC RHR	21087	1/4			X	0			X
SPGBB 110H2024 DIV I LPCI/SDC RHR	21094	1/4			X	0			X
SPGBB 114H2001 DIV I LPCI/SDC RHR	16433	1/4			X	0			X
SPGBB 115H 1 DIV II LPCI/SDC RHR	13053	1/4			X	0			X
SPGBB 115H2000 DIV II LPCI/SDC RHR	22908	1/4			X	0			X
SPGBB 115H2001 DIV II LPCI/SDC RHR	22932	1/4			X	0			X
SPGBB 115H2008 DIV II LPCI/SDC RHR	28801	1/4			X P/P 2'0 1/4"	0			X
SPGBB 122H2004 DIV I LPCI/SDC RHR	19558	3			X P/P 2'6 1/2"	0			X
SPGBB 122H2006 DIV I LPCI/SDC RHR	09932	1/2			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPGBB 122H2012 DIV II LPCI/SDC RHR	28934	1/4			X P/P 3'8 1/8"	0			X
SPGBB 122H2014 DIV II LPCI/SDC RHR	28739	1/4			X P/P 2'10 5/8"	0			X
SPGBB 122H2017 DIV II LPCI/SDC RHR	06585	3			X	0			X
SPGBB 131H2007 MAIN STEAM LEAKAGE CONTROL	22880	1/4			X	0			X
SPGBB 133H 16 MAIN STEAM LEAKAGE CONTROL	12963	1/2			X	0			X
SPGBB 134H 3 MAIN STEAM LEAKAGE CONTROL	10918	1/4			X P/P 2'2 1/2"	0			X
SPHBB 108H2004 HPCI STM EXHAUST	16781	1			X P/P 2'2 3/8"	0			X
SPHBB 120H2003 DIV I LPCI/SDC RHR	09944	1/2			X	0			X
SPHBB 135H 4 HPCI STM EXHAUST	28990	1/4			X	0			X
SPHBB 135H2002 HPCI STM EXHAUST	28948	1/4			X	0			X
SPHBB 135H2005A HPCI STM EXHAUST	21146	1/4			X P/P 2'2 1/8"	0			X
SPHBB 135H2005B HPCI STM EXHAUST	23624	1/4			X P/P 2'2 1/8"	0			X
SPHBB 135H2007 HPCI STM EXHAUST	09703	1/4			X P/P 2'5 3/8"	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHBB 135H2008 HPCI STM EXHAUST	21115	1/4			X P/P 1'11 3/8"	0			X
SPHBB 135H2010 HPCI STM EXHAUST	13944	1/2			X	0			X
SPHBB 137H2001 RCIC STM EXHAUST	14389	1/2			X P/P 2'10 7/16"	0			X
SPHBB 137H2003 RCIC STM EXHAUST	21123	1/4			X	0			X
SPHBB 137H2004 RCIC STM EXHAUST	10750	1/2			X	0			X
SPHBC 78H2013 DIESEL GEN C	13430	1/2			X	0			X
SPHBC 78H2014 DIESEL GEN C	04999	1			X	0			X
SPHBC 78H2061 DIESEL GEN B	17214	1/2			X P/P-1'11"	0			X
SPHBC 139H2063 ESW U1 B LOOP	22939	1/4			X	0			X
SPHBD 105H2000 RECIRC NONIMPACTING A LOOP	14366	1/4			03/18/92	256	PASS C/S AF 2 1/2 AR 2 1/2		Z
SPHBD 174H2002 RHR COMMON IMPACTING	13418	1/2			X	0			X
SPHBD 174H2009 DIV I LPCI/SDC RHR	17234	1/2			X	0			X
SPHBD 174H2010 DIV I LPCI/SDC RHR	13407	1/2			X	0			X

LEGEND

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N = NCR, F = PREVIOUS FAILURE, B = REBUILT SNUBBER, C = SPECIAL CASE

UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHBD 199H2004	23032	1/4			X	0			X
RCIC STM EXHAUST					P/P 1'8 5/8"				
SPHBD 563H2002	22999	1/4			X	0			X
RHR/RECIRC S.P.NONIMPACTING									
SPHBD 563H2004	23002	1/4			X	0			X
RHR/RECIRC S.P.NONIMPACTING									
SPHBD1115H2002	13439	1/2	S		03/24/92	2119	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 1 AR 1	
SPHBD1115H2003	28780	1/4			03/25/92	1343	PASS		Z
RHR/RECIRC S.P.NONIMPACTING					P/P-4'3"			C/S AF 2 AR 2	
SPHBD1115H2009	22931	1/4			03/25/92	30	PASS		Z
RHR/RECIRC S.P.NONIMPACTING								C/S AF 2 AR 2	
SPHBD1147H3036	17228	1/2			X	0			X
CS CHILLED WATER A LOOP					P/P 2'0 3/8"				
SPHBD1148H3034	13953	1/2			X	0			X
CS CHILLED WATER B LOOP					P/P 3'6 3/8"				
SPHBD1149H3036A	23556	1/4			X	0			X
CS CHILLED WATER A LOOP					P/P 3'0"				
SPHBD1149H3036B	22943	1/4			X	0			X
CS CHILLED WATER A LOOP					P/P 3'0"				
SPHBD1502H2002	23006	1/4			X	0			X
DIV I LPCI/SDC RHR									
SPHBD1502H2003	23007	1/4			X	0			X
DIV I LPCI/SDC RHR									
SPHBD1503H2004	14380	1/4			X	0			X
RHR/RECIRC S.P.NONIMPACTING									

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHBD1503H2006 DIV I LPCI/SDC RHR	22916	1/4	S		03/20/92	1200	PASS	C/S AF 3" AR 3"	03/21/92
SPHBD1530H2001 RHR/RECIRC S.P.NONIMPACTING		1/4			X	0			X
SPHBD1533H2014 DIV I LPCI/SDC RHR	10728	1/2			X	0			X
SPHBD1533H2017 DIV I LPCI/SDC RHR	23589	1/4			X	0			X
SPHBD1534H2000 DIV I LPCI/SDC RHR	14377	1/4			X	0			X
SPHBD1538H2000 HPCI S.P. LEVEL INSTRUMENTATON	28803	1/4			X	0			X
SPHBD1545H2000 RHR/RECIRC S.P.NONIMPACTING	23579	1/4			X	0			X
SPHBD1545H2001 RHR/RECIRC S.P.NONIMPACTING	06285	1/4			X	0			X
SPHBD1545H2002 RHR/RECIRC S.P.NONIMPACTING	06297	1/4			X	0			X
SPHBD1546H2000 DIV I LPCI/SDC RHR	21064	1/4			X	0			X
SPHBD1547H2001 DIV I LPCI/SDC RHR	21077	1/4			X	0			X
SPHBD1548H2001 DIV I LPCI/SDC RHR	23015	1/4			X P/P 2'4 1/4"	0			X
SPHBD1549H2000 DIV I LPCI/SDC RHR	23018	1/4			X P/P 2'6 1/4"	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHBD3001H2000 CS CHILLED WATER B LOOP	10732	1/2			X	0			X
SPHBD3003H2004 CS CHILLED WATER B LOOP	10925	1/4			X	0			X
SPHBD3036H2001 CS CHILLED WATER A LOOP	27843	1/4			X	0			X
SPHBD3061H2009 SBGT A TRAIN	18797	1			X P/P 3'0 5/8"	0			X
SPHBD3061H2011 SBGT B TRAIN	18807	1			X	0			X
SPHBD5017H2014 DIV II LPCI/SDC RHR	22966	1/4			X	0			X
SPHBD5018H2000 DIV II LPCI/SDC RHR	27945	1/4			X P/P 2'6"	0			X
SPHBD5018H2002 DIV II LPCI/SDC RHR	23560	1/4			X	0			X
SPHBD5018H2003 DIV II LPCI/SDC RHR	23004	1/4			X P/P 2'3 5/8"	0			X
SPHBD5018H2005 DIV II LPCI/SDC RHR	23005	1/4			X	0			X
SPHBD5018H2009 DIV II LPCI/SDC RHR	13398	1/2			X P/P 2'2 1/4"	0			X
SPHBD5025H2004 RWCU RETURN NONEFFECTING FW	14377	1/2			X P/P 2'4"	0			X
SPHBD5025H2005 RWCU RETURN NONEFFECTING FW	12180	1			X	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHBD5063H2003 RHR/RECIRC S.P.NONIMPACTING	16406	1/4			X	0			X
SPHBD5063H2009 RHR/RECIRC S.P.NONIMPACTING	16407	1/4			X	0			X
SPHBD5063H2015 RHR/RECIRC S.P.NONIMPACTING	23042	1/4			X	0			X
SPHCB 105H2008 SBLC OUTSIDE CONT	23572	1/4			X	0			X
SPHCB 106H 2 CAC SAMPLING	16354	1/4			X	0			X
SPHCB 106H 3 CAC SAMPLING	16355	1/4			X	0			X
SPHCB 109H2012 CAC SAMPLING	21104	1/4			X P/P 2'2 1/2"	0			X
SPHCB 121H 2 CAC SAMPLING	23003	1/4			X P/P 2'4 1/2"	0			X
SPHCB 121H 5 CAC SAMPLING	13073	1/4			X	0			X
SPHCB 122H2005 CAC SAMPLING	16440	1/4			X	0			X
SPHCB 125H 2 CAC SAMPLING	13125	1/4	F		03/10/92 P/P 2'10 11/16"	952	PASS	C/S AF 2" AR 2"	03/11/92
SPHCB 126H2007 CAC SAMPLING	28782	1/4			X P/P 4'6 1/4"	0			X
SPHCB 126H2015 CAC SAMPLING	06249	1/4			X	0			X

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHCB 126H2018 CAC SAMPLING	21063	1/4			X	0			X
SPHCB 126H2022 CAC SAMPLING	16356	1/4			X	0			X
SPHCB 126H2024 CAC SAMPLING	22893	1/4			X	0			X
SPHCB 126H2027 CAC SAMPLING	22988	1/4			X	0			X
SPHCB 126H2028 CAC SAMPLING	23043	1/4			X	0			X
SPHCB 126H2030 CAC SAMPLING	16402	1/4			X	0			X
SPHCB 126H2033 CAC SAMPLING	14373	1/4			X	0			X
SPHCB 126H2035 CAC SAMPLING	28933	1/4			X P/P 3'3 11/16"	0			X
SPHCB 126H2525 CAC SAMPLING	14383	1/2			X	0			X
SPHCB 127H2000 CAC SAMPLING	16414	1/4			X	0			X
SPHCB 129H2000 CIG SUCTION & TIP	13417	1/2			X	0			X
SPHCB 138H2001 CAC SAMPLING	21071	1/4			X	0			X
SPHCB 138H2003 CAC SAMPLING	22874	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHCB 138H2004 CAC SAMPLING	10752	1/2			X	0			X
SPHCB 139H2004 CAC SAMPLING	06290	1/4			X	0			X
SPHCB 139H2006 CAC SAMPLING	18583	1			X	0			X
SPHCB 142H2000 MAIN STEAM LEAKAGE CONTROL	23036	1/4			X P/P 1'6 7/8"	0			X
SPHCB 153H2001 CAC SAMPLING	28838	1/4			X	0			X
SPHCC 131H2019 MAIN STEAM 'C' LINE IN CONT	29279	1/4	CF	92-087 92-085	03/15/92 P/P 4'3 7/8"	903	FAIL	27972-82 C/S AF 1 AR 1	04/14/92
SPHCC 138H2008 MAIN STEAM 'D' LINE IN CONT	29288	1/4	CF		03/15/92 P/P 4'4"	837	FAIL	21091-81 C/S AF 1 5/8 AR 1 5/8	04/14/92
SPHCC 138H2009 MAIN STEAM 'D' LINE IN CONT	28829	1/4	CF		03/15/92	916	FAIL	14344-80 C/S AF 3 AR 3	04/14/92
SPHCD3063H2005 CHLORINE DETECTION	16372	1/4			03/25/92	2042	FAIL	C/S AF 2 AR 2	Z
SPHRC 11H2000 ESW 'A' LOOP ISOLABLE PIPE	10731	1/2			X	0			X
SPHRC 11H2001 ESW 'A' LOOP ISOLABLE PIPE	13941	1/2			X	0			X
SPHRC 123H2001 ESW U1 B LOOP	13412	1/2			X	0			X
SPHRC 136H1001 RHR SW 'A' LOOP RETURN	21160	1/4	F	92-053	03/17/92	814	PASS	C/S AF 1.5 AR 1.5	03/18/92

LEGEND

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPHRC 136H1005 RHR SW 'B' LOOP RETURN	22947	1/4			X	0			X
SPHRC 136H2000 RHR SW 'B' LOOP RETURN	22971	1/4			X	0			X
SPHRC 136H2001 RHR SW 'B' LOOP RETURN	23631	1/4			X	0			X
SPJBD 188H 12 HEAD VENT IN CONT	19503	3			03/14/92 CLAMP REMOVED	1142	PASS C/S AF 2 1/2" AR 2 1/2"		Z
SPJBD 188H2001 VESSEL FLANGE LEAKOFF	13078	1/4			X	0			X
SPJCD 107H2004 SBLC OUTSIDE CONT	22975	1/4			X	0			X
SPJCD 114H2004 CIG/MSIV & NONADS SRV	23011	1/4			X	0			X
SPJCD 115H 113 CIG/MSIV & NON ADS SRV	06324	1/4			X	0			X
SPJCD 115H2005 CIG/MSIV & NON ADS SRV	23023	1/4			X	0			X
SPJCD 127H2002 CIG SUCTION & TIP	22937	1/4			X	0			X
SPXBD 535H2006 DIV I LPCI/SDC RHR	28784	1/4			X P/P 2'7 5/8"	0			X
SPXBD 535H2007 DIV I LPCI/SDC RHR	10735	1/2			X	0			X
SPXBD 535H2008 DIV I LPCI/SDC RHR	23575	1/4			X	0			X

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UNIT 1 6TH RFO -- SNUBBER FUNCTIONAL EXAMS -- APPENDIX C.1
AS OF: 07/20/92 TIME: 11.11.32

SNUBBER ID / SYSTEM DESC	SERIAL	SIZE	ORIGIN	NCR NUM / NCR NUM	TEST DATE / MEMO	TEST TIME	PASS FAIL	REPLACED S/NUM	REINSTALLED DATE
SPXBD 551H2004	23057	1/4			X	0			X
DIV II LPCI/SDC RHR									

TOTAL: 1639

LEGEND

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SNUBBER VISUAL TESTING LISTING

Snubber visual examinations were not performed during the U1-6RIO because of changes to Technical Specification requirements governing snubber visual examinations.

MECHANICAL MAINTENANCE

NIS-2 FORMS

ASME REPAIRS AND REPLACEMENTS

1. INTRODUCTION

This section of the Summary Report contains work performed on ASME Section XI Items identified by Maintenance Work Authorizations (WA's). The scope of work addressed encompasses the period from completion of the Unit 1 Fifth Refuel Outage to the completion of the Unit 1 Sixth Refuel Outage.

2. CODE COMPLIANCE SUMMARY

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

3. Maintenance is responsible for conducting repairs and replacements under the WA process and documented on NIS-2 forms. The detailed listing of work performed is summarized below. The NIS-2 forms are attached.

SYSTEM / CLASS	W. A. NUMBER	DESCRIPTION
024 (R-1)	S23196	Seal weld drain plug on oil filter canister.
147 (R-1)	S83497	Machine gasket seating area on manway cover and perform weld build-up.
024A III	S15351	SP-GBC-4-3 Remove drain trap and weld new one into place.
125A III	S23075	PVC-12648 Reworked and replaced internals.
125A III	S23074	PVC-12643 Remove spring housing for disassembly, rework, and tack weld.
149	P12235	Replace RHR cooler 1E217C.
149A II	U13043-U13046	1P202A-1P202D Mechanical RHR pump seals were replaced.
149D II	S05441	PSV-15113 Disc and nozzle were machined.
150B II	P13041	PSE 1D001 Rupture disc was replaced for regular three year PM.
152B II	P13039	PSE 1D003 16" inner rupture disc was replaced with new one.
153A II	H10111	148F004A and 148F004B Fire squib valves were replaced.
155B	S13584, S14338	HCU 26-59 and HCU 30-03 accumulators were replaced.
162A I	S13801	PSV141F013 were machined on two MSRV's.
162A I	H10161-H10177	Replaced MSRV's for periodic testing.
162A I	S14988	Replaced discs, nozzles and one inlet stud.
162A I	H10160	Replaced fourteen nuts and seven studs.
164A I	S05560	Replaced the seal on pump 1P401A.
183A I	S23275	HV-141F028A Stem of MSIV was replaced.
183A I	U03040, U03038	MSIV Packing leakoff piping removed and replaced with a cap.

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) WA S-23196 (P.O. no., job no., etc.)

(address)

2. Owner Pennsylvania Power and Light Co. (name)

Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

Berwick, PA 18603 (address)

4. Unit identification: Liquid Filter (boiler, pressure vessel) Name of original manufacturer NUGENT

5. Identifying nos.: 83859 (mfr's. serial no.) 6242 (original National Board no.) (jurisdiction no.) LF03468E2 (other) 1983 (year built)

6. Description of work: Seal Weld Drain Plug on Oil Filter Canister (use back, separate sheet, or sketch if necessary)

Pressure test, if applied _____ psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks:

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229

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. N/A to use the N/A symbol expires N/A 19 N/A

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of N/A and employed by N/A N/A of N/A 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 N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A

Date Dec. 22 1989 Penna., Power & Light Co. (repair or alteration organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on 2/14 1992 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 SYSTEM

Date 6/9 1992 Signed [signature] (Authorized Inspector) Commissions PA 2159 (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) WA 383497 (P.O. no., job no., etc.)

(address)

2. Owner Pennsylvania Power and Light Co. (name)

Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

Berwick, PA 18603 (address)

4. Unit identification: Water Heater (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos.: 72-H-714-5B (mfr's. serial no.) 2216 (original National Board no.) Pa 460977 (jurisdiction no.) 1E105B (other) 1975 (year built)

6. Description of work: Machine gasket seating area on manway cover and perform weld build-up. (use back, separate sheet, or sketch if necessary)

Pressure test, if applied _____ psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks:

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229

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. N/A to use the N/A symbol expires N/A 19 N/A

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of N/A and employed by N/A N/A of N/A 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 N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (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 repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A

Date Dec. 22 1989 Penna., Power & Light Co. (repair or alteration organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on 1-24 19 92 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.

Date 6/9 19 92 Signed [signature] (Authorized Inspector) Commissions FACTORY MUTUAL SYSTEM PA 2159 (National Board (incl. endorsements), state, prov., and no.)

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

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: July 2, 1992
Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: COMMON
WA# S15351 (Repair Organization P.O. No., Job No., etc.)

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

4. Indentification of System: 024A III : Diesel Generator and Aux. Systems

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping to "B" D/G Drain Trap	ITT Grinnell	N/A	N/A	SP-GBC-4-3 DT-0343481	1978	Repair	No

7. Description of Work: Remove Drain Trap and Weld New One Into Place.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other (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.

FORM NIS-2 (Back)

9. Remarks TESTING: Penetrant test

Applicable Manufacturer's Data Reports to be attached

Drain Trap DT-03434B1 is not code. Weld is code.

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 S. Mal Date July 2, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-9-92 to 1-28-92, 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 SYSTEM

D. E. Tillery Commissions NB8845 Pa 2361 NJ

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

Date July 7, 1992

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

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

Date: May 11, 1992

Sheet 1 of 1

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

Unit: ONE

WA#S23075 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 125A III : Primary Containment Instrument Gas

5. (a) Applicable Construction Code: III 19 74 Edition, thru W'74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Internals	Target Rock	75KK-403-1	N/A	PCV12648	1979	Replaced	Y
1" Globe Valve Internals	Target Rock	75KK-401-6	N/A	PCV12648	1990	Replacement	Y
1" Globe Valve	Target Rock	75KK-403-1	N/A	PCV12648	1979	Repair	Y

7. Description of Work: Valve reworked and internals replaced due to non-repeatable pressure regulation.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [x] 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

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 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/1/92 to 5/9/92, 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 PA 2159 NI

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

FACTORY MUTUAL SYSTEM

Date 6/9 19 92

*Revised 9-1-91

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

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd, E. Farmingdale, NY 11735
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Berwick, PA 18603
(name and address of Purchaser or Owner)

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

4. Model No., Series No., or Type 75KK-401 Drawing 88Z-552-001 Rev. - CRN N/A

5. ASME Code Section III: 1974 (Edition) W 1974 (Addenda date) 3 (Class) N/A (Code Case no.)

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

7. Material: Body SA-182 F316L 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.
6	N/A	2138	N/A	N/A
N/A	N/A	N/A	N/A	N/A

E. Bajada, Q.A. Manager 9/6/91 Date

W. A. Roland, ANI 9/6/91 Date

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

(6/85) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y 10017

FORM NPV-1 (back)

Mfr. Serial No. N/A

8. Remarks Seat Sleeve, SA-479 316L, S/N 13

Cap, SA-479 316, S/N 6 *Spring Housing, SA-479 316

9. Design conditions 2570 (pressure) psi 150 (temperature) °F or valve pressure class N/A (1)

10. Cold working pressure N/A psi at 100°F

11. Hydrostatic test 5025 psi Temp. Ambient °F Disk differential test pressure N/A psi

CERTIFICATION OF DESIGN

Design Specification certified by Stephen Gresdo Prof. Eng. state PA Reg. No. 20080-E

Design Report certified by _____ Prof. Eng. state _____ Reg. No. _____

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. 1947 Expires 12-12-92

Date 5/21/90 Name Target Rock Corporation (N Certificate Holder) Signed E. Bajada (Representative) E. Bajada, Q.A. Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 5/22 19 90, 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 5/22 19 90

William A. Roland (Inspector) Commissions N. Y. STATE COMMISSION NO. 2288 ALSO COMMISSIONED IN PENN., OHIO & CONN. (Nat'l Bd., (incl. endorsements) State, Prov. and No.)

(1) For manually operated valves only.

PP&L PENNSYLVA[redacted] LIGHT COMPANY
P[redacted] (717) 542-3428

[redacted]

PURCHASE ORDER NO: 8-48454-1

DATE 12/13/88

THIS PURCHASE ORDER NUMBER M APPEAR ON ALL PACKAGES, INVOI SHIPPING PAPERS AND CORRESPONDE

PURCHASE ORDER
PURCHASING SECTION COPY

TARGET ROCK CORP
1966 E BROADHOLLOW RD
EAST FARMINGDALE NY 11735

SHIP TO PENNSYLVANIA POWER & LIGHT COMPANY
REF. NO. 8-48454-1
SUSQUEHANNA SES STOREROOM
5 MI NE OF BERWICK ON US RT :
PO BOX 467
BERWICK PA 18603

ROUTING: UPS-PREPAID OR FRIEDMAN'S EXPRESS - COLLECT

ORDER QUANTITY	UNIT	DESCRIPTION	PP&L CATALOG OR ITEM NO.	UNIT PRICE
1	EA	VALVE; PRESSURE REGULATING, FOR: TARGET ROCK 1" REGULATING VALVE, MODEL 75KK-401/GLB, DWG. NO. 75KK-401, REV. G. QUALITY CLASSIFICATION: Q1 ASME CODE CLASS: 3 ********************************** * DOCUMENTATION REQUIREMENTS * ********************************** HYDROSTATIC TEST SEAT LEAKAGE TEST LIQUID PENETRANT TEST WALL THICKNESS AND CRITICAL MEASUREMENTS PERFORMANCE TEST MAJOR DEFECT REPAIR REPORT C OF C TO MATL. SPEC. FOR CNP RETAINING ITEMS CERT. OF CONFORMANCE NDI-QA-2.4.7C OR EQUAL ASME CODE DATA REPORT CERTIFIED MATERIAL TEST REPORT FILLER METAL CERTIFIED MATERIAL TEST REPORT A TARGET 75KK401	32528	12,500.00
1	LT	DOCUMENTATION CHARGES; AND/OR SPECIAL ENGINEERING SERVICES; AND/OR PREMIUM HANDLING CHARGES; AND/OR CANCELLATION CHARGES.	199999	1,800.00
				CONTINUED

DIRECT PAY PERMIT #132 IS IN EFFECT FOR THIS COMPANY. DO NOT INCLUDE PENNSYLVANIA SALES OR USE TAX.

DATE REQUIRED	F.O.B.	PAYMENT TERMS
9/22/89	POINT OF SHIPMENT	NET 30 DAYS

PROMISED DELIVERY	SUBJECT	QUO			APPROVER:
09/21/89	982720				D. G. SUTTON

IMPORTANT NOTICE

[redacted]r embodies the entire agreement between the parties, supersedes any prior [redacted]ons or communications, and is placed subject to the terms and conditions herein stated, including any contained in any documents made a part hereof by the Company by attachment or reference and no agreement or understanding in any way modifying the terms and conditions herein stated shall be binding upon the Company unless acceptance thereof has been signed by its Director, Procurement.

This order constitutes an offer which shall be deemed accepted by Supplier's acknowledgement (using the acknowledgment copy of this order or any other suitable means of communication), or commencement of work hereunder.

207091

INSTRUCTIONS

1. Mail INVOICES IN TRIPLICATE to Accounts Payable Section. If freight terms allow for prepaid freight charges, a copy of the freight bill must be furnished with your invoice.
2. Mail ACKNOWLEDGEMENTS to Purchasing Section.
3. Mail above documents to TWO NORTH NINTH STREET, ALLENTOWN, PA 18101.
4. Include PACKING SLIP with each shipment.

Roger A. Inglese

ROGER A. INGLESE
DIRECTOR, PROCUREMENT

BUYER C J PERLUKE

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: June 30, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — WA# S23074 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: 125A III : Primary Containment Instrument Gas

5. (a) Applicable Construction Code: III 19 74 Edition, thru W'74 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	Target Rock	75KK-401-1	N/A	PCV-12643	1980	Repair	Yes

7. Description of Work: Remove Spring Housing to Allow for Disassembly, Rework, and Tack Weld

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other(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

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 S Y Slad Date July 2, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 2-10-92 to 5-9-92, 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 SYSTEM

D. E. Tillery Commissions NB8845 Pa2361 NI

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

Date July 7 19 92

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

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

Date: May 5, 1992

Sheet 1 of 1

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

Unit: ONE

WA# P12235 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 149 RHR

5. (a) Applicable Construction Code: N/A 19 N/A Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Pump 1C Motor Oil Cooler	G.E.	D90048-001D	N/A	1E217C	N/A	Replaced	No
RHR Pump 1C Motor Oil Cooler	G.E.	D90451-0001D	N/A	1E217C	N/A	Replacement	No

7. Description of Work: Replace "C" RHR Cooler

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 Date N/A

Signed [signature] Date 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2/10/92 to 5/8/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

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

FACTORY MUTUAL SYSTEM

Date 6/9 19 92

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

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 27, 1992
Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
WAR's U13043, U13044, U13045, U13046 (Repair Organization P.O. No., Job No., etc.)

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

4. Indentification of System: 149A II : RHR

5. (a) Applicable Construction Code: 68 P&V 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Pump Seal	Ingersoll Rand	60860	N/A	1P202A	1973	Replaced	No
RHR Pump Seal	Ingersall Rand	91P-90572	N/A	1P202A	1991	Replacement	No
RHR Pump Seal	Ingersoll Rand	61778	N/A	1P202B	1973	Replaced	No
RHR Pump Seal	Ingersall Rand	91P-90571	N/A	1P202B	1991	Replacement	No
RHR Pump Seal	Ingersoll Rand	61779	N/A	1P202C	1973	Replaced	No
RHR Pump Seal	Ingersall Rand	91P-90574	N/A	1P202C	1991	Replacement	No

7. Description of Work: Mechanical RHR pump seals were replaced.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 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 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1/10/92 to 4/20/92, 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 SYSTEM

[signature] Commissions NB 7525 PA2159 NI

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

Date 6/9 19 92

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

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

Date: May 27, 1992

Sheet 2 of 2

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

Unit: ONE

WAF's U13043, U13044, U13045, U13048 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 149A II : RHR

5. (a) Applicable Construction Code: 68 P&V 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Pump Seal	Ingersoll Rand	60881	N/A	1P202D	1973	Replaced	No
RHR Pump Seal	Ingersall Rand	91P-80573	N/A	1P202D	1991	Replacement	No

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

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 26, 1992
Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
WA# S05441 (Repair Organization P.O. No., Job No., etc.)

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

4. Indentification of System: 149D II : RHR

5. (a) Applicable Construction Code: III 19 74 Edition, thru W'74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Relief Valve	Lonergan	510138-1-19-1	N/A	PSV-15113	1981	Repair	Yes

7. Description of Work: Disc and Nozzle Were Machined

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other [x] 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 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

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 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 4/17/91 to 5/8/92, 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 SYSTEM

[signature] Commissions NB 7525 PA 2159 NI

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

Date 6/9 19 92

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

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

Date: May 6, 1992
Sheet 1 of 1

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

Unit: ONE
WA# P13041 (Repair Organization P.O. No., Job No., etc.)

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

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

4. Indentification of System: 150B II : RCIC

5. (a) Applicable Construction Code: III 19 71 Edition, thru S'73 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Rupture Disc	BS&B	HT#888798	N/A	PSE1D001	1984	Replaced	No
Rupture Disc	BS&B	HT#888798	N/A	PSE1D001	1984	Replacement	No

7. Description of Work: Rupture disc was replaced for regular three year PM.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 Manufacturer's Data Reports Attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 6/24, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 1-20-92 to 4-27-92, 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 SYSTEM

D E Tillery Commissions NB 8845 Pa 2361 NJ

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

Date June 29, 19 92

Customer: Pennsylvania Power & Light

P.O. #: 74-32842-1

BS&B SAFETY SYSTEMS

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. 84-1447
RECORD PACKAGE
PAGE 4 OF 14

BS&B SAFETY SYSTEMS, INC. • 7455 EAST 46th STREET • P.O. BOX 470500 • TULSA, OKLAHOMA 74147-0500 • PHONE 918/622-5850
TELEX 49-2479 BS&B GEN TUL • FAX 918/665-3005

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

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 6, 1992
Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
WA# P13039 (Repair Organization P.O. No., Job No., etc.)

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

4. Indentification of System: 152B II : HPCI

5. (a) Applicable Construction Code: III 19 71 Edition, thru s'73 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Rupture disc	BS&B	HT#886798	N/A	PSE1D003	1984	REPLACED	YES
Rupture disc	BS&B	HT#886798	N/A	PSE1D003	1984	REPLACEMENT	YES

7. Description of Work: 16" Inner rupture disc was replaced with new one.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 Manufacturer's Data Reports Attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 1-20-92 to 4-27-92, 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 SYSTEM

D E Tillery Commissions NB8845 Pa 2361 NI

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

Date June 29, 19 92

CUSTOMER: Pennsylvania Power & Lig

3 0 1 5 5 1 1 0 P.O. #4732-43-1

FORM NR-1

BS&B

SAFETY SYSTEMS

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 or Style No. BV Lot No. 84090025-1

3. Disk Dimensional Characteristics:

Size: 16" Capacity 431,434 SCFM Air

4. Material Specification: ASTM A-167 TY 316 (Stainless Steel)

5. Drawing No. N/A

6. Burst Pressure 166.5 PSIG Max. 150.5 PSIG Min.

7. Coincident Disk Temperature 380 Deg F

8. Element used in tests Air

9. Cyclic Test Results (if required) N/A

CERTIFICATION

10. Place of Test: Tulsa, Oklahoma Date of Test: 10/22/84

We certify the above data to be correct and that these disks have been manufactured and tested to the requirements of the ASME Code.

SIGNED: BS&B Safety Systems, Inc. BY: D. L. Vavra

D. L. Vavra
Quality Control Manager

DATE: October 22, 1984

No. of Pieces Shipped: 20

Actual Burst Test Results: 183 PSIG @ 72 deg F
160, 157 PSIG @ 380 Deg F

84-2006
4 14

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

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

Date: July 1, 1992

Sheet 1 of 1

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

Unit: ONE

WA# H10111 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 153A II : Standby Liquid Control

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'77 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SLC Squibb Valve	Conax Bufflalo	3053	3053	148F004A	1988	Replaced	Yes
SLC Squibb Valve	Conax Buffalo	3650	3650	148F004A	1991	Replacement	Yes
SLC Squibb Valve	Conax Bufflalo	3063	3063	148F004B	1988	Replaced	Yes
SLC Squibb Valve	Conax Buffalo	3844	3844	148F004B	1991	Replacement	Yes

7. Description of Work: Fired Squib Valves Were Replaced

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1275 psi Test Temp. 69 °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

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 S. R. Slad Date July 2, 19 92
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 4-2-92 to 5-9-92, 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 SYSTEM

D E Tillery
Inspector's Signature

Commissions NB8845 Pa 2361 N I
National Board, State, Province, and Endorsements

Date July 7, 19 92

FORM N-2 N OR N CERTIFICATE HOLDERS' DATA F ORT 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 Conax Buffalo Corporation, 2300 Walden Ave., Cheektowaga, NY 14225
(name and address of certificate holder)

2. Manufactured for General Electric Co., 175 Curtner Ave., San Jose, CA 95125
(name and address of purchaser)

3. Location of installation _____
(name and address)

4. Type N-20000 Rev. F (drawing no.) 304SST SA479 (nat'l spec no.) 75 KSI (tensile strength) N/A (CRN) 1991 (year built)

5. ASME Code, Section III: 77 (edition) S77 (addenda) 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. Pressure tested at 2800 PSI for 10 minutes.

*See Remarks.

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

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 3640	3640	(26)	
(2) 3641	3641	(27)	
(3) 3642	3642	(28)	
(4) 3643	3643	(29)	
(5) 3644	3644	(30)	
(6) 3645	3645	(31)	
(7) 3646	3646	(32)	
(8) 3647	3647	(33)	
(9) 3648	3648	(34)	
(10) 3649	3649	(35)	
(11) 3650	3650	(36)	
(12) 3651	3651	(37)	
(13) 3652	3652	(38)	
(14) 3653	3653	(39)	
(15) 3654	3654	(40)	
(16) 3655	3655	(41)	
(17) 3656	3656	(42)	
(18) 3657	3657	(43)	
(19) 3658	3658	(44)	
(20) 3659	3659	(45)	
(21) 3660	3660	(46)	
(22) 3661	3661	(47)	
(23) 3662	3662	(48)	
(24) 3663	3663	(49)	
(25) 3664	3664	(50)	

10. Design pressure 1400 psi Temp. 150 °F. Hydro. test pressure *See Remarks. (when applicable) at temp. °F.

*Supplemental information in 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 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.

(6/83)

FORM N-2 (back)

CERTIFICATE OF DESIGN

Design specifications certified by Clyde T. Nieh P. E. state CA Reg. no. 15587

Design report* certified by Francis J. Domino P. E. state NY Reg. no. 36832
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N-1850 Expires September 2, 1992

Date 7-3-91 Name Conax Buffalo Corporation Signed [signature]
(NPT Certificate Holder) (authorized representative)
James G. Schraven, Q.A. Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or pro-vince of New York and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected these items described in this data report on 7-1-91, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 7-3-91 Signed [signature] Commissions NB 7787
(Authorized Inspector) (Nat'l Bd (incl. endorsements) state or prov. and no.)

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

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

Date: May 27, 1992

Sheet 1 of 1

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

Unit: ONE

WA#'s S13584, S14338 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 155B : CRD hydraulics

5. (a) Applicable Construction Code: VIII 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HCU Accumulator	GE	1426	N/A	HCU 26-59	1975	Replaced	Yes
HCU Accumulator	GE	2421	N/A	HCU 26-59	1977	Replacement	Yes
HCU Accumulator	GE	1294	N/A	HCU 30-03	1975	Replaced	Yes
HCU Accumulator	GE	2407	N/A	HCU 30-03	1977	Replacement	Yes

7. Description of Work: Two HCU accumulators were replaced.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 Manufacturer's Data Reports Attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 10/17/91 to 4-30-92, 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 SYSTEM

[signature] Commissions NB 7525 PA 2159 NI

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

Date 6/26, 19 92

Formerly [illegible] Pressure Vessels

Manufactured and certified by [illegible]

1974 [illegible] (Year) [illegible] (Owner)

Special Service per (N) 12 [illegible]

(Manufacturer's Partial Data Reports properly identified, signed by Commissioned Inspectors, have been furnished for the following items of the report: N/A [illegible])

6. Shell: Mat. SA-106 Gr. B Thk. 55 [illegible] Diam. 8170 [illegible] Cert. [illegible]

7. Seams: Long. N/A Seamless [illegible] H.T. Temp. [illegible] Time [illegible]

Circ. No Welding Performed [illegible] No. of Courses [illegible]

8. Heads: (a) Material SA-182-F304 [illegible] (b) Material SA-182-F304 [illegible]

	Location (Top, Bottom, Ends)	Min. Thk.	Corr.	Crown Radius	Knuckle Radius	Depth	Conical Radius	Apex Angle	Hemispher. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a)	Top	2.5"								7.230	Flathead
(b)	Bottom	2.5"								7.230	Flathead

9. If removable, bolts used (describe other fastenings) 500-13 Bolts-ASME-SA193-87 for Split Flanges (4) (Material, Spec. No., Gr., Size, No.)

10. Constructed for max. allowable working pressure 2100 psi at max. temp. 400 F. Min. temp. (when less than -20 F) [illegible] F. Hydrostatic, pneumatic, or combination test pressure 3200 psi [illegible]

10. Safety Valve Outlets: Number None Size [illegible] Location [illegible]

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Material	Thk.	Work	Reinforcement Material	Nozzle Attached	Location
Gas Port	1	75"	Split Flng	30455	1.060	None		Bolts (4)	Bottm.
Water Port	1	97"	Split Flng	30455	1.300	None		Bolts (4)	Top

12. Supports: Skirt No Legs [illegible] Other [illegible] Attached [illegible] (Yes or no) (No.) (No.) (Type) (Material) (Description) (Where and how)

13. Remarks: Complete Mechanical Assembly With No Welded Joints

Although A Differential Pressure Exsists on each side of the Internal Piston, the Accumulator Cylinder is Hydrostatically tested with the Piston removed. The Hydro Test pressure is based on the higher design pressure.

CERTIFICATE OF 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.

Date 10-21-77 Signed General Electric Co. (Manufacturer) by [signature] (Representative)

"U" Certificate of Authorization No. 10,572 expires June 10, 19 78

CERTIFICATE OF SHOP INSPECTION

Vessel made by General Electric Company at Wilmington, N.C.

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 N. Carolina and employed by Dept of Labor have inspected the pressure vessel described in this Manufacturers' Data Report on 10-21 19 77 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' 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.

Signed [signature] (Inspector) Date 10-21-77 Commissions NC 723 - PA - NC1766 - Ohio (Nat'l Board, State, Province and No.)

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Commercially Shop Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by General Electric Company, P.O. Box 780, Wilmington, N.C.
2. Manufactured for Same as Above
3. Location of Installation
4. Type Vertical 2407 (Parts, or vess. serial) (Other Serial No.) 921D595G002 (Drawing No.) H/A (Nat'l Brd No.) (Year Built) 1977
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 1974 (Year) and Addenda to S'75 (Date) and Code Case Nos. --
Special Service per UG-120(d) As Per This Data Report - See Remarks Below
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A
6. Shell: Mat. SA-106 Gr. B (Spec. No., Grade) Nom. Thk. .55 in. Corr. Allow. -- in. Diam. 8.70 in. Lgth. 3 ft 2.38 in.
7. Seams: Long. N/A Seamless (Welded, Dbl. Engl. Lap, Butt) R.T. N/A (Spot or Full) Efficiency -- % H.T. Temp. -- F Time -- hr
Girth No Welding Performed (Welded, Dbl. Engl. Lap, Butt) R.T. -- (Spot, Partial, or Full) No. of Courses --
8. Heads: (a) Material SA-182-F304 (Spec. No., Grade) (b) Material SA-182-F304 (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisph. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) Top	2.5"							7.230	Flathead
(b) Bottom	2.5"							7.230	Flathead

If removable, bolts used (describe other fastenings) 500-13 Bolts-ASME-SA193-B7 for Split Flanges (4) (Material, Spec. No., Gr., Size, No.)
9. Constructed for max. allowable working pressure 2100 psi at max. temp. 400 F. Min. temp. (when less than -20 F) -- F. Hydrostatic, pneumatic, or combination test pressure 3200 psi.
10. Safety Valve Outlets: Number None Size -- Location ---
11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat.	Nom. Thk.	Reinforcement Mat.	How Attached	Location
Gas Port	1	.75"	Split Flng.	30455	1.060	None	Bolts (4)	Bottm.
Water Port	1	.97"	Split Flng.	30455	1.300	None	Bolts (4)	Top

12. Supports: Skirt No (Yes or no) Lugs ___ (No.) Legs ___ (No.) Other ___ (Describe) Attached ___ (Where and how)
13. Remarks: Complete Mechanical Assembly with No Welded Joints.
Although A Differential Pressure Exsists on each side of the Internal Piston, the Accumulator Cylinder is Hydrostatically tested with the Piston removed. The Hydro Test pressure is based on the higher design pressure.

CERTIFICATE OF 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.
Date 10-20-77 Signed General Electric Co. (Manufacturer) by [signature] (Representative)
"U" Certificate of Authorization No. 10,572 expires June 10, 19 78

CERTIFICATE OF SHOP INSPECTION

Vessel made by General Electric Company at Wilmington, N.C.
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 N. Carolina and employed by Dept of Labor have inspected the pressure vessel described in this Manufacturers' Data Report on 10-20 19 77 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' 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.
Signed [signature] (Inspector) Date 10-20-77 Commissions NC 723, PA WC1766, Ohio (Nat'l Board, State, Province and No.)

(1/76) This form (E00117) 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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 8, 1992
Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
WA#'s S13801 (Repair Organization P.O. No., Job No., etc.)

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

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, _____ Addenda, 1587,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Relief Valve	Crosby	N63790-00-0094	N/A	PSV141F013	1981	Repair	Yes
Main Steam Relief Valve	Crosby	N63790-00-0026	N/A	PSV141F013	1980	Repair	Yes

7. Description of Work: Spring washer and adjusting bolt button were machined on two MSRV's

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 (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 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6-29-91 to 4-26-92, 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 SYSTEM

D E Tillery Commissions NB8845 Pa2361 NJ

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

Date June 29 19 92

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

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

Date: May 27, 1992

Sheet 1 of 5

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

Unit: ONE

WA#'s H10161 thru H10177 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1587,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Relief Valve	Crosby	N63790-00-0083	N/A	PSV141F013A	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0085	N/A	PSV141F013A	1981	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0112	N/A	PSV141F013B	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0026	N/A	PSV141F013B	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0022	N/A	PSV141F013C	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0088	N/A	PSV141F013C	1981	Replacement	Yes

7. Description of Work: Replace MSRV with reworked/retested MSRV.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 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 6/1, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 1-16-91 to 4-26-92, 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 SYSTEM

D E Tillery
Inspector's Signature

Commissions NB8845 Pa 2361 NJ
National Board, State, Province, and Endorsements

Date June 29 1992

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

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

Date: May 27, 1992

Sheet 2 of 5

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

Unit: ONE

WAR's H10181 thru H10177 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1587,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Relief Valve	Crosby	N63790-00-0086	N/A	PSV141F013D	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0024	N/A	PSV141F013D	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0090	N/A	PSV141F013F	1982	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0025	N/A	PSV141F013F	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0087	N/A	PSV141F013E	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0112	N/A	PSV141F013E	1981	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0092	N/A	PSV141F013G	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0093	N/A	PSV141F013G	1981	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0085	N/A	PSV141F013H	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0031	N/A	PSV141F013H	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0081	N/A	PSV141F013J	1982	Replaced	Yes

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

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

Date: May 27, 1992

Sheet 3 of 5

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

Unit: ONE

WAR's H10181 thru H10177 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1567,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Relief Valve	Crosby	N63790-00-0028	N/A	PSV141F013J	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0093	N/A	PSV141F013K	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0094	N/A	PSV141F013K	1981	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0091	N/A	PSV141F013L	1981	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0089	N/A	PSV141F013L	1981	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0131	N/A	PSV141F013M	1982	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0091	N/A	PSV141F013M	1981	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0028	N/A	PSV141F013N	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0027	N/A	PSV141F013N	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63790-00-0021	N/A	PSV141F013P	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N63790-00-0029	N/A	PSV141F013P	1980	Replacement	Yes

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

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: July 1, 1992
Sheet 4 of 5

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
WA#'s H10161 thru H10177 (Repair Organization P.O. No., Job No., etc.)

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

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1567,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Relief Valve	Crosby	N83790-00-0028	N/A	PSV141F013R	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N83790-00-0032	N/A	PSV141F013R	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N83790-00-0019	N/A	PSV141F013S	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N83790-00-0090	N/A	PSV141F013S	1982	Replacement	Yes
3 Heavy Hex Inlet Nuts	GE	PP&L Cat# 50002	N/A	PSV141F013C	1982	Replaced	No
3 Heavy Hex Inlet Nuts	Crosby	HT# WC3-3	N/A	PSV141F013C	1982	Replacement	No
4 Heavy Hex Inlet Nuts	GE	PP&L Cat# 50002	N/A	PSV141F013J	1982	Replaced	No
4 Heavy Hex Inlet Nust	Crosby	HT# KB4280	N/A	PSV141F013J	1989	Replacement	No
Heavy Hex Inlet Nut	GE	PP&L Cat# 50002	N/A	PSV141F013G	1982	Replaced	No
Heavy Hex Inlet Nut	Crosby	HT# WC3-3	N/A	PSV141F013G	1982	Replacement	No
Heavy Hex Inlet Nut	GE	PP&L Cat# 50002	N/A	PSV141F013M	1982	Replaced	No

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

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

Date: May 12, 1992

Sheet 4 of 5

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

Unit: ONE

WA#'s H10161 thru H10177 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1567,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Relief Valve	Crosby	N63780-00-0029	N/A	PSV141F013R	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N63780-00-0032	N/A	PSV141F013R	1980	Replacement	Yes
Main Steam Relief Valve	Crosby	N63780-00-0019	N/A	PSV141F013S	1980	Replaced	Yes
Main Steam Relief Valve	Crosby	N63780-00-0020	N/A	PSV141F013S	1982	Replacement	Yes
3 Heavy Hex Inlet Nuts	GE	PP&L Cat# 50002	N/A	PSV141F013C	1982	Replaced	No
3 Heavy Hex Inlet Nuts	Crosby	HT# WC3-3	N/A	PSV141F013C	1992	Replacement	No
4 Heavy Hex Inlet Nuts	GE	PP&L Cat# 50002	N/A	PSV141F013J	1982	Replaced	No
4 Heavy Hex Inlet Nust	Crosby	HT# KB4290	N/A	PSV141F013J	1989	Replacement	No
Heavy Hex Inlet Nut	GE	PP&L Cat# 50002	N/A	PSV141F013G	1982	Replaced	No
Heavy Hex Inlet Nut	Crosby	HT# WC3-3	N/A	PSV141F013G	1992	Replacement	No
Heavy Hex Inlet Nut	GE	PP&L Cat# 50002	N/A	PSV141F013M	1982	Replaced	No

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

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

Date: May 12, 1992

Sheet 5 of 5

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

Unit: ONE

WA#'s H10161 thru H10177 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1587,1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Heavy Hex Inlet Nut	Crosby	HT# WC3-3	N/A	PSV141F013M	1992	Replacement	No
Heavy Hex Inlet Nut	GE	PP&L Cat# 50002	N/A	PSV141F013A	1982	Replaced	No
Heavy Hex Inlet Nut	Crosby	HT# KB4290	N/A	PSV141F013A	1989	Replacement	No
7 Heavy Hex Inlet Nuts	GE	PP&L Cat# 50002	N/A	PSV141F013P	1982	Replaced	No
7 Heavy Hex Inlet Nuts	Crosby	HT# KB4290	N/A	PSV141F013P	1989	Replacement	No
Heavy Hex Inlet Nut	GE	PP&L Cat# 50002	N/A	PSV141F013E	1982	Replaced	No
Heavy Hex Inlet Nut	Crosby	HT# WC3-3	N/A	PSV141F013E	1992	Replacement	No

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

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

Date: May 27, 1992

Sheet 1 of 2

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

Unit: ONE

S14988 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1587 & 1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Nozzle	Crosby	N93484-37-0040	N/A	PSV-141F013 MSRV 0085	1987	Replaced	No
Nozzle	Crosby	N93184-35-0022	N/A	PSV-141F013 MSRV 0085	1987	Replcasement	No
Disc	Crosby	N93185-35-0106	N/A	PSV-141F013 MSRV 0085	1981	Replaced	No
Disc	Crosby	N93185-10-0108	N/A	PSV-141F013 MSRV 0085	1989	Replacement	No
Nozzle	Crosby	N93184-34-0012	N/A	PSV-141F013 MSRV 0091	1988	Replaced	No
Nozzle	Crosby	N93184-37-0036	N/A	PSV-141F013 MSRV 0091	1987	Replcasement	No

7. Description of Work: Replace Discs, Nozzles, and one inlet stud

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 Manufacturer's Data Reports Attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4-3-92 to 5-9-92, 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 SYSTEM

D. E. Tillery Commissions NB8845 Pa 2361 NI

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

Date July 7 19 92

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

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

Date: June 24, 1992

Sheet 2 of 2

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

Unit: ONE

S14988 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 71 Edition, N/A Addenda, 1567 & 1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Disc	Crosby	N93184-37-0040	N/A	PSV-141F013 MSRV 0091	1988	Replaced	No
Disc	Crosby	N93185-39-0111	N/A	PSV-141F013 MSRV 0091	1989	Replacement	No
Nozzle	Crosby	N93184-34-0008	N/A	PSV-141F013 MSRV 0112	1988	Replaced	No
Nozzle	Crosby	N93185-38-0085	N/A	PSV-141F013 MSRV 0112	1987	Replcaement	No
Disc	Crosby	N93185-33-0025	N/A	PSV-141F013 MSRV 0112	1988	Replaced	No
Disc	Crosby	N93185-38-0085	N/A	PSV-141F013 MSRV 0112	1987	Replacement	No
Inlet Stud	Crosby	N/A	N/A	PSV-141F013 MSRV 0090	N/A	Replaced	No
Inlet Stud	Crosby	v,b7,c23	N/A	PSV-141F013 MSRV 0090	1987	Replacement	No

CROSBY

TABLE 7.3 VALVE SERIAL NO.

SAFETY RELIEF VALVE TEST DATA SHEET
MODIFICATION PROGRAM PROCEDURE NO. MPP-4400

Plant: N195971 IT 4
Modified Valve Serial No.:
Size and Style: 6K10 H8765 BP

Inlet Hydrostatic Tests (Reference Paragraph 7.3)

Nozzle

Nozzle Serial No.: N/A
Test Pressure:
Test Duration:
Gage No.:
Date Calibrated:
Bore Diameter (Before Test):
Bore Diameter (After Test):
Results:

Performed By: _____ Signed _____ Dated

Crosby: _____ Signed _____ Dated

A.N.I.: _____ Signed _____ Dated

Disc Insert

Disc Insert Serial No.: N193185-10-0108
Test Pressure: 2320
Test Duration: 15
Gage No.: 462A
Date Calibrated: 1-28-89
Results: Good
Seating Surface I.D. (Before Test): 5.039 5.039 5.039
Parallelism (Before Test): .0005
Seating Surface I.D. (After Test): 5.039 5.039 5.039
Parallelism (After Test): .0005

Performed By: H Fazzio 1-30-89 Signed Dated

Crosby: 1-30-89 Signed Dated

A.N.I.: _____ Signed _____ Dated

NO. 89-0102
RECORD PACK
PAGE 8 OF

CROSBY
FINAL DOCUMENTATION
PART DISC INSERT
CROSBY S/N N193185-10-0108
HEAT NO.
P.O.

9007322155

CROSBY crosby VALVES & GAGES, INC.
WRENTHAM, MASS

QC-220-15

TABLE 7.1 Valve Serial No.: _____

SAFETY RELIEF VALVE TEST DATA SHEET
MODIFICATION PROGRAM PROCEDURE NO. MPP-4400

Plant: N28410-9
Modified Valve Serial No.: _____
Size and Style: _____

Inlet Hydrostatic Tests (Reference Paragraph 7.3)

Nozzle

Nozzle Serial No.: N93184-37-0036
Test Pressure: 2370
Test Duration: 15 min
Gage No.: 357
Date Calibrated: 7-21-87
Bore Diameter (Before Test): 4.534 4.534 4.534
Bore Diameter (After Test): 4.534 4.534 4.534
Results: Good
Performed By: [signature] 7-23-87
Signed Dated
Crosby: 7-23-87
Signed Dated
A.N.I.: N/A
Signed Dated

Disc Insert

Disc Insert Serial No.: N/A
Test Pressure: _____
Test Duration: _____
Gage No.: _____
Date Calibrated: _____
Results: _____
Seating Surface I.D. (Before Test): _____
Parallelism (Before Test): _____
Seating Surface I.D. (After Test): _____
Parallelism (After Test): _____

Performed By: _____
Signed Dated
Crosby: _____
Signed Dated
A.N.I.: _____
Signed Dated

No. 87-1060
RECORD PACKAGE
PAGE 52 OF 73

CROSBY

CROSBY VALVE & GAGE COMPANY
BRAINTREE, MASS

QC-220-15

TABLE 7.1 Valve Serial No.: _____

SAFETY RELIEF VALVE TEST DATA SHEET
MODIFICATION PROGRAM PROCEDURE NO. MPP-4400

Plant: N95971 ET 4
Modified Valve Serial No.: _____
Size and Style: 6R10 HB-65-BP

Inlet Hydrostatic Tests (Reference Paragraph 7.3)

Nozzle

Nozzle Serial No.: N/A
Test Pressure: _____
Test Duration: _____
Gage No.: _____
Date Calibrated: _____
Bore Diameter (Before Test): _____
Bore Diameter (After Test): _____
Results: _____

Performed By: _____
Signed Dated

Crosby: _____
Signed Dated

A.N.I.: _____
Signed Dated

Disc Insert

Disc Insert Serial No.: [illegible]
Test Pressure: [illegible]
Test Duration: [illegible]
Gage No.: [illegible]
Date Calibrated: [illegible]
Results: [illegible]
Seating Surface I.D. (Before Test): 5.038 5.038 5.038
Parallelism (Before Test): .0002
Seating Surface I.D. (After Test): 5.038 5.038 5.038
Parallelism (After Test): .0002

Performed By: F. Fazzio 1-28-89
Signed Dated

Crosby: 1-28-89
Signed Dated

A.N.I.: _____
Signed Dated

NO. 89-0102
RECORD PACKAGE
PAGE 17 OF 23

CROSBY
FINAL DOCUMENTATION

PART DISC INSERT
CROSBY S/N N98185-37-0111 '0112
HEAT NO. 911592
P.O. N95971100 ITEM 004
CUSTOMER P.O. 8-31679-1

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

QC-220-15

TABLE 7.1 Valve Serial No.: _____

SAFETY RELIEF VALVE TEST DATA SHEET
MODIFICATION PROGRAM PROCEDURE NO. MPP-4400

Plant: N85290 IT. 2
Modified Valve Serial No.: _____
Size and Style: _____

Inlet Hydrostatic Tests (Reference Paragraph 7.3)

Nozzle

Nozzle Serial No.: N/A
Test Pressure: _____
Test Duration: _____
Gage No.: _____
Date Calibrated: _____
Bore Diameter (Before Test): _____
Bore Diameter (After Test): _____
Results: _____

Performed By: _____
Signed Dated

Crosby: _____
Signed Dated

A.N.I.: _____
Signed Dated

Disc Insert

Disc Insert Serial No.: W93185-38-0085
Test Pressure: 8320 PSI
Test Duration: 15 min
Gage No.: 462 A
Date Calibrated: 11-24-87
Results: Good
Seating Surface I.D. (Before Test): 5.0385 5.0385 5.0385
Parallelism (Before Test): .0005
Seating Surface I.D. (After Test): 5.0385 5.0385 5.0385
Parallelism (After Test): .0005

Performed By: Robert W. Humbert 11-28-87
Signed Dated

NOV 28 1987

Crosby: _____
Signed Dated

A.N.I.: N/A
Signed Dated

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

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

Date: July 2, 1992
Sheet 1 of 1

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

Unit: ONE
H10160 (Repair Organization P.O. No., Job No., etc.)

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

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

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 86 Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Nuts	ITT Grinnell	Ht# LN88	N/A	Head Vent	1979	Replaced	No
Nuts	Hub	Ht# C27729	N/A	Head Vent	1992	Replacement	No

7. Description of Work: Replaced fouteen nuts

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 Manufacturer's Data Reports Attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed S. Mal Date July 2, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4-27-92 to 4-30-92, 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 SYSTEM

O E Tillery Commissions NB8845 Pa 2361 N I

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

Date July 7 19 92

PPR# 14973 Sheet 2 of

CERTIFICATE OF CONFORMANCE

(Instructions on reverse of this form)

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

(1) Purchase Order/Release No. or Contract Title: 1-48104-1

(2) Change Order Notice/Amendment No.: N/A

(3) Supplier Name: Hub Inc. Energy + Process Div.

(4) Supplier Address: 2146-B Flintstone Dr. Tucker, Ga. 30084

ITEM IDENTIFICATION

(5) PP&L Order Item No.	(6) PP&L Catalog No.	(7) Quantity Shipped	(8) Description
2	N/A	48pcs.	1 1/8"-8 Heavy Hex Nut SA194
			Gr. 7 Ht. C27729 H/c: EZ
			MFg: Cardinal

(9) PP&L Approved Exceptions (Attach PP&L Approval Documentation): N/A

(10) J. R. Buffington
Signature (Responsible Supplier Representative)

(11) Q.C. Inspector
(Title)

(12) 3-4-92
Date

NDI-QA-2.4.7C
Rev. 1 (7/87)

No. 92-0306
RECORD PACKAGE
PAGE 5 OF 10

HUB INC.

2146 FLINTSTONE DRIVE • TUCKER, GEORGIA 30085 • 404/934-3101

MATERIAL CERTIFICATION

CUSTOMER: PENN. POWER & LIGHT (SUSQUEHANNA)
CUSTOMER P.O. NUMBER: 1-48104-1
PACKING SLIP NUMBER: 67105EPD (DIRECT SHIPMENT)
DESCRIPTION: 48 PCS. - 1-1/8"-8 HEAVY HEX NUT SA194 GR.7
HT.C27729 H/C:E2 MFG:CIPI ITEM# 2

*SPEC. M-1071, REV.1

*ASME SECTION II, PART A
1989 EDITION THU 1990 ADDENDA

Based on review of supporting documentation, we hereby certify that to the best of our knowledge and belief, the material described above is in compliance with ASME Section III Class 1, Subsection NB, 1986 EDITION THRU NO ADDENDA of the Boiler and Pressure Vessel Code, your purchase order, and that all required inspections and tests have been performed with satisfactory results.

The material was purchased from a qualified source and is being supplied in accordance with the Energy & Process Div. Quality Systems Certificate (Materials) Number QSC-332 which expires April 28, 1993, meeting NCA-3800.

The provisions of NRC 10CFR21 apply to this order, and no weld repair was performed.

Hub QAM Rev. 12, DTD. 3/22/91.

J.R. Bettinger Jr.
SIGNED

Q.C. Inspector
TITLE

3-4-92
DATE

cc: Customer file

Attachments: 5

NO. 95-0306
RECORD PACKAGE
PAGE 6 OF 10

Cardinal
INDUSTRIAL PRODUCTS INC.
Manufacturer/Distributor of Quality Products
873 WEST OQUENDO • LAS VEGAS, NEVADA 89118-3098
(702) 739-1966 • FAX (702) 739-1960

Cert No: 85434
Cert Date: 3/2/92
C.I. No: 3105
C.I. Item No: 1
Qty. Ordered: 48
Qty. Shipped: 48

Hub, Inc.
Cust. P.O. No: 0067105-EPD
Cust. Item No: 2

Certification for Item: 1 1/8-8 SA194 Gr.7 Heavy Hex Nuts
Heat #C27729 Manufacturer's Mark: C Grade Mark: 7
Heat Code: E2 Supplemental Mark: 2H DH D 4 3 Lines Tag #1-4810

** THIS IS A CERTIFICATE OF COMPLIANCE **

Reshipped parts.
Material has been manufactured in accordance with our Quality Sys
Certificate #518 which expires 1/9/93.
Per ASME B & PV Code, Sec.II, Part A, 1989 Edition thru 1990 Addend
Sec.III, Class 1, Subsection NB, 1986 Edition.
Per Customer Specification: M-1071, Rev.1
10 CFR 21 & 10 CFR 50 Appendix B apply.
Heat Treat Condition: Quenched & Tempered.
Charpy specimens prepared per NX-2322.
Magnetic particle per SA614, 1986 Edition, Para.KW. Results are attach
Visual inspection per CSP 11.002, Rev.7. Results are attached.
No welding was performed on the above material.
This is to certify that the contents of this report are correct
accurate and that all test results and operations are in compliance w
the material specification and the specific requirements of Section
designated by the above purchase order.

Lead Quality Assurance Technician

No. 92-0250a
RECORD PACKAGE
PAGE 8 OF 10

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: July 2, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — H10160 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: 162A I : Reactor Vessel and Aux.

5. (a) Applicable Construction Code: III 19 83 Edition, thru W'85 Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	ITT Grinnell	Ht# LN97	N/A	Head Vent	1979	Replaced	No
Studs	Nova Machine	Ht# 8085354	N/A	Head Vent	1991	Replacement	No

7. Description of Work: Replaced seven studs

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [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 Manufacturer's Data Reports Attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 2, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4-24-92 to 4-30-92, 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 SYSTEM

D E Tillery Commissions NB8845 Pa 2361 N I

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

Date July 7 1992

CERTIFICATE OF TESTS

CUSTOMER NUMBER: 5571700001 | ITEMS: 0501 | 00

NOVA MACHINE PRODUCTS CORP
P O BOX 30287
MIDDLEBURGH HTS OH 44130

NOVA MACHINE PRODUCTS CORP
18001 SHELDON RD
MIDDLEBURGH HTS OH 44130

ROUTE/VEHICLE IDENTIFICATION | CHECK NO.

THIS MATERIAL WAS NOT [illegible] TO TO MERCURY-CONTAMINATED METAL/ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

	QUANTITY SHIPPED
[illegible] ALLOY NOVA [illegible] 17L7 NB-2130 NB2150 [illegible] NB-2311 NB-2343 [illegible] NA-3000 1989 EDIT [illegible] GRADE 37 ASME-SA 320-89 [illegible] L7 [illegible] 104-89 10CFR21 & 10CFR50B EF-AISI-4140 FINE GRAIN . MAGNAFLUX & QUENCH & TEMP S STRAIGHT IMPACT TEST IMPACT TEST INFO ONLY STAMP TWO LETTER HEAT CODE ONE END DUAL ASSURANCE DOC 1T MAX 01 RDS 1-1/4 X 20/22 FT	8160

C. I. MILLER
MGR. MET
SYSTEMS & LABS

BY: W. L. Carroll
CERTIFICATION ANALYST
CANTON/MASSILLON

CUST.: PPL
P.O.: 1-46436-1
S.O.: 12169 ITEM: 1

HT	TEMP	QUENCH TIME	MEDIUM	DRAW TEMP	DRAW TIME	DRAW TEMP	DRAW TIME	STRESS TEMP	STRESS TIME	ENH	DECARB
806535	1800	1 HRS	OIL	1100	3HRS					7	

C	MN	P	S	SI	CU	NI	CR	MO	V	SN	AL	TI
0.40	00.86	.013	.020	0.20			01.02	0.21			0.027	

CB	FE	CBTA	CO	W	TA	N	B	H	O	SE	ZN	CA

	(1)	(2)	3	(4)	5	6	7	(8)	9	10	11	(12)	13	14	15	(16)	18	(20)	22	(21)	29	(23)	30	(25)
	5	9	5	6	3	6	7	3	3	6	5	3	3	4	5	3	5	1	3	1	5	1	4	9	4	7	4	5	4	3	4	3	4	0	4	0	3	9	3	8	3	7	3	7	3	7

S1R1C1					

HEAT NO.	A THN	A THK	B THN	B THK	C THN	C THK	D THN	D THK

NOVA
QUALITY ASSURANCE
APPROVED
INSP. TLH DATE 8/13/90

MATERIAL WAS PRODUCED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM, QUALITY ASSURANCE MANUAL, REV.7, DTD 9/30/88.

1M-S 20 1TP

LONGITUDINAL MIDWAY

QUANTITY NO	OFFSET	YIELD PSI	TENSILE PSI	% ELONG (2")	% RA	TYPE	HARDNESS	CHARPY IMPACTS (FT-LBS)
413909	.2	134100	152400	18.5	59.9	BHN	302	AT -30 DEG.F. 56 53 34 42 FT-LB LAT EXP: 28 26 17 21 % SHEAR 90 95 95 95 AT -150 DEG.F 24 20 20 17 FT-LB L.EXP: 12 10 10 8 %SHR: 95 95 95 95

HEAT CODE 54
NO WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

No. 91-1517
RECORD PACKAGE
PAGE 5 OF 10

X

CLEVELAND, OHIO
FAX: (216) [illegible]

CHARLOTTE DIVISION
[illegible] Westinborough Blvd.
P.O. Box 7594
Charlotte, North Carolina 28241
(704) [illegible]1131 • FAX: (704) 5[illegible]-5412

To: NOVA MACHINE PRODUCTS
18001 SHELDON RD.
MIDDLEBURG HTS., OHIO 44130

Page 1 of 1
Herron File No. 91090385
Purchase Order No. 091079
Shipper No.
Inspected 9-9-91 Reported 9-9-91

Grade: MS-2500 Level: Class: Grade:

Procedure: MCL-230, Rev. 0

☒ Magnetic Particle ☐ Penetrant
☒ Wet ☐ Dry ☐ Visible
☒ Fluorescent ☐ Fluorescent
☐ Visible ☐ Thickness
☐ Ultrasonic ☐

Qty: Total Accepted: 46 Total Rejected: 0

QUANTITY	PART NUMBER	DESCRIPTION	RESULTS
16		1-1/8 x 6-1/2 Stud Heat Code: XJ8 Receipt Lot No. 33484029	All Acceptable
30		1-1/8 x 7-1/2 Stud Heat Code: XJ9 Receipt Lot No. 33484030 QA Codes: 100 104	All Acceptable CUST.: PPL P.O.# L46436-1 S.O. # 13169 ITEM # 3 NOVA QUALITY ASSURANCE APPROVED INSP. [illegible] DATE: 9/4/9[illegible]

COMMENTS Process: Longitudinal, Circular, Wet, Fluorescent, Continuous, Demag.

The items were processed per the Herron Testing Labs Quality Program Manual dtd. Feb. 1990 as approved by Nova.

No. 91-1217
RECORD PACKAGE
PAGE 10 OF 10

By [signature] Certification SNT-TC-1A Level II

J. William Smith

HERRON TESTING LABORATORIES, INC.
5405 E. SCHAAF ROAD • CLEVELAND, OHIO 44131
(216) 524-1450 • FAX: (216) 524-1459
"Testing and Analysis Since 1911"

CHARLOTTE DIVISION
1200-E Westinghouse Blvd.
P.O. Box 7564
Charlotte, North Carolina 28241
(704) 588-1131 • FAX: (704) 588-5412

To:
NOVA MACHINE PRODUCTS
18001 SHELDON ROAD
MIDDLEBURG HTS., OH 44130

ATTN: SANDY

Page 1 of 1
Herron File No. 91051381
Purchase Order No. 051381
Shipper No.
Date Reported 5/28/91

SAMPLE DESCRIPTION 1-1/4" Dia. Bar Test PC, Matl. ASME SA-320, ('86) Gr. L7, Receipt Lot #32959000, ASME Sec. III: 1983-85W NCA, Certified to 10CFR21, per ASME Sec. III Sub. NB (NB-2300) NP-2200 Rev. 4.

MECHANICAL TESTING

Wiedeman-Baldwin, Model SI-IC, S/N 1068.
10 mm X 10 mm x 55 mm Charpy V-Notch Impact Bars

Temp. Deg. F.		Impact Strength (Foot Pounds)	Mils Lateral Expansion	% Ductile Fracture Area
+32	1A	56	30	100
	1B	55	31	100
	1C	55	25	100

Location: Mid-Radius Orientation: Longitudinal
Min. Requirement: 25 MILLS, 45 Ft. Lbs.
These items were processed per the Herron Testing Labs Quality Program Manual dated February 1990 as approved by Nova.

Respectfully submitted,

HERRON TESTING LABORATORIES, INC.

Kristi Krug
Supervisor

CUST.: PPL
P.O.# 1-46436-1
S.O. # 12169 ITEM # 1

NOVA
QUALITY ASSUR
APPROVED
INSP. SRS DATE 6-6-91

KK

RECORD PACKAGE PAGE 5 OF 10

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

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

Date: May 27, 1992

Sheet 1 of 1

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

Unit: ONE

WA#S05560 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 164B I : Reactor Recirc.

5. (a) Applicable Construction Code: III 19 71 Edition, thru S'72 . Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump Seal	Byron Jackson	711-S-0803	N/A	1P401A	1973	Replaced	No
Pump Seal	Byron Jackson	711-S-0804	N/A	1P401A	1974	Replacement	No

7. Description of Work: Replace the seal on pump 1P401A

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 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 Date N/A

Signed [signature] Date 6/5, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 11-30-90 to 4-30-92, 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 SYSTEM

[signature] Commissions NB 7525 PA 2159 NI

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

Date 6/26 19 92

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

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

Date: May 8, 1992

Sheet 1 of 1

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

Unit: ONE

WAR's U03040, U03038 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: 183A I : Main Steam

5. (a) Applicable Construction Code: III 19 71 Edition, thru S'71 Addenda, 1535-2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSIV Leak-off Piping	Atwood-Morril	5-221	N/A	HV-141F028A	1971	Replaced	No
Cap	Chicago Tube	HT#CH89	N/A	HV-141F028A	1982	Replacement	No
MSIV Leak-off Piping	Atwood-Morril	7-221	N/A	HV-141F028C	1971	Replaced	No
Cap	Chicago Tube	HT#CH89	N/A	HV-141F028C	1982	Replacement	No

7. Description of Work: MSIV Packing leakoff piping removed and replaced with a cap.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ 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

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 6/8, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 6/18/90 to 4/14/92, 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 SYSTEM

[signature] Commissions NB 7525 PA 2159 NI

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

Date 6/9 19 92

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

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

Date: May 4, 1992
Sheet 1 of 1

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

Unit: ONE
WA#S23275 (Repair Organization P.O. No., Job No., etc.)

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

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

4. Indentification of System: 183A I :MAIN STEAM

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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSIV STEM	Atwood & Morril		N/A	HV-141F028A	1971	Replaced	N
MSIV STEM	Atwood & Morril	Ht#1G8808	N/A	HV-141F028A	1991	Replacement	N

7. Description of Work: Stem of MSIV was replaced.

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 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 [signature] Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT Date 6/8, 19 92

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAN, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 9-19-90 to 3-31-92, 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 SYSTEM

DE Tillery Commissions NB8845 Pa 2361 NJ

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

Date June 28 19 92

MODIFICATIONS INSTALLATION GROUP

NIS-2 FORMS

WORK ABSTRACT

The Modification Installation 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) items, installed in Unit 1 since the completion of the Fifth Refueling Outage through completion of the Sixth Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM/CLASS	DESCRIPTION
88-3031	016A III	RHRSW Heat Exchanger Drains
91-9013A,B,C,&D	023B III	Install Diesel Generator Fuel Oil Vents
90-3046B&D	024A III	Replace Tube Bundles in OE507B&D
89-3031	027*	Modify Sample Piping on Auxilliary Boiler, OS101A
89-3031	027*	Modify Sample Piping on Auxilliary Boiler, OS101B
88-3031, 88-3032, 90-3005	054A III	Install New Isolation Valves and Drains for RHRSW Heat Exchanger
90-3088	054A III	Install PSV-01126E
90-3004	072*	Install Welded Studs on Common Offgas Recombiner OS125
88-3041A	114A*	Retube Heat Exchanger 1E-201A
88-3041B	114A*	Retube Heat Excahnger 1E-201B
92-9024	125A III	Modify Pipe Support SP-HCC-138-H28

DESIGN CHANGE PACKAGE NUMBER	SYSTEM/CLASS	DESCRIPTION
90-3064A	134K*	Install Vent Valve on Condenser 1K206B
90-3058A	134K*	Install Vent Valve on Condenser 1K206A
88-3051A&B, 89-3027, 89-3028	134D III	Modify Piping, Replace Flex Hoses and Core Spray Room Cooler Coils
89-3027, 89-3028	134E III	Modified Piping at HPCI Room Coolers
88-3047A&B	134E III	Replace Flex Hoses and HPCI Room Cooler Coils
88-3045A&B, 89-3027, 89-3028	134F III	Modified Piping, Replace Flex Hoses and RCIC Room Cooler Coils
88-3049A&B, 89-3027, 89-3028	134G III	Modified Piping, Replace Flex Hoses and RHR Room Cooler Coils
90-3108F	134K II	Snubber Reduction
92-9024	145A I	Feedwater Weld Repair
90-3108J	145A I	Snubber Reduction
90-3108F	149G I	Snubber Reduction
91-9080A&B, 86-9080	149G I	Install New Disc in HV151F015A&B
89-9153A, 89-3049A	149A II	Replace RHR Pump Seal Water Piping
90-3108L	149D II	Snubber Reduction
88-3031	149B III	Install RHRSW Heat Exchanger Drain Valves
90-3108I	150B I	Snubber Reduction
91-3019	150B II	Replace HV150F045
91-9082A&B	151A I	Modify HV152F005A&B Valve Discs
90-3108I	152B I	Snubber Reduction
89-9158A	152~~A~~ B II	Install Tubing and Valves for PT 15601

DESIGN CHANGE PACKAGE NUMBER	SYSTEM/CLASS	DESCRIPTION
90-3005	154A III	Install ESW Drain Valves
89-3015D, 88-3047A, 89-9153A	154A III	Remove Keepfill Piping, Remove FE11189A,B,C & D
89-3027, 89-3028	154A III	Modify ESW Piping
89-9153C	154A III	Modified ESW Piping to the RHR Pumps
90-3051A	159A II	Install Tubing and Valves for PT-15729A&B
90-3108L	159A II	Snubber Reduction
90-3035C/D	161B II	RWCU Pump Replacement
90-3035C/D	161B III	RWCU Pump Replacement
90-3108I	162A I	Snubber Reduction
90-3108I	162A I	Snubber Reduction
90-3108L	162A I	Snubber Reduction
90-3108J	162A I	Snubber Reduction
90-3108K	162A I	Snubber Reduction
90-3108K	162A II	Snubber Reduction
90-3092	164B I	Remove 1F027B, 1F028B Valves
90-3108F	164B I	Snubber Reduction
90-3108F	164D II	Snubber Reduction
90-3108F	173A II	Snubber Reduction
90-3108I	183A I	Snubber Reduction
90-3108I	183F I	Snubber Reduction
90-3108I	183D III	Snubber Reduction

*Repair of a Section VIII Component (R-1 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: 7 July, 1992

Sheet 1 of 6

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

Unit: ONE

DCP'S: 88-3031 SEE PAGE 4 FOR WA'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM 016A, CLASS III

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 5 FOR EXCEPTIONS TO CONSTRUCTION CODE.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
20", 150#, S.S. BUTTERFLY VALVE	JAMESBURY	ND-285990-01B	N/A	1-12-061	1990	REPLACEMENT	YES
1-1/8" X 6" GR.-B6 STUD BOLTS	PP&L	RIR# 91-0421 HEAT# 26574	N/A	1-12-061	1991	REPLACEMENT	NO
1-1/8" GR.-6F HEAVY HEX NUTS	PP&L	RIR# 91-0421 HEAT# 95962	N/A	1-12-061	1991	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	HRC-112-1	1982	REPLACED	YES
LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	HRC-112-1	1991	REPLACEMENT	NO
SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-HRC-112-6	1991	REPLACEMENT	NO

7. Description of Work: ADDITION OF ISOLATION VALVE AND VARIOUS VENT & DRAIN VALVES TO RHRSW.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE PAGE 6
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 S. R. Shah Date July 16, 19 92.

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-4-91 to 4-2-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7525 PA 2159 NI

National Board, State, Province, and Endorsements

Date 7-22 19 92

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: 7 July, 1992

Sheet 2 of 6

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

Unit: ONE

DCP'S: 88-3031 SEE PAGE 4 FOR WA'S (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM 016A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 5 FOR EXCEPTIONS TO CONSTRUCTION CODE.

Name of 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", 150#, C.S., BLIND FLANGE	BECHTEL	N/A	N/A	HRC-114-1-10	1982	REPLACED	YES
LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	HRC-114-1	1991	REPLACEMENT	NO
SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-HRC-114-2	1991	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	HRC-16-6	1982	REPLACED	YES
LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	HRC-16-6	1991	REPLACEMENT	NO
3", 150#, S.S., FLG'D GATE VALVE	ANCHOR DARLING	EB323-1-19	N/A	0-12-063	1990	REPLACEMENT	YES
3", 150#, S.S., FLG'D GATE VALVE	ANCHOR DARLING	EB323-1-20	N/A	1-12-085	1990	REPLACEMENT	YES
1", 1500#, C.S. GLOBE VALVE	YARWAY	7687	N/A	1-12-075	1977	REPLACEMENT	YES
1", 1500#, C.S. GLOBE VALVE	YARWAY	7864	N/A	1-12-086	1977	REPLACEMENT	YES
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	HRC-112-1	1982	REPLACED	NO
MECHANICAL SHOCK	PACIFIC SICIENTIFIC	17718	N/A	HRC-112-H1	N/A	REPLACED	NO

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

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

Date: 7 July, 1992

Sheet 3 of 6

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

Unit: ONE

DCP'S: 88-3031 SEE PAGE 4 FOR WA'S (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM 016A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 5 FOR EXCEPTIONS TO CONSTRUCTION CODE.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-113 H2004	1982	REPLACED	YES
MECHANICAL SHOCK	PACIFIC SICIENTIFIC	19534	N/A	SP-HRC-113 H2004	N/A	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-113 H2005	1982	REPLACED	NO
MECHANICAL SHOCK	PACIFIC SICIENTIFIC	06809	N/A	SP-HRC-113 H2005	N/A	REPLACED	NO

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

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

Date: 7 July, 1992

Sheet 4 of 6

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

Unit: ONE

DCP'S: 88-3031 SEE PAGE 4 FOR WA'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM 016A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 5 FOR EXCEPTIONS TO CONSTRUCTION CODE.

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

WA#'s:	Description of Work Performed:
C13095	Shop fabrication of spool pieces; inspect, pack, and testing of valves; and other miscellaneous prep work
C13097	Installed branch connection and associated components for vent valve assemblies 1-12-075 & 1-12-086.
C13100	Installed branch connection and associated components for vent & drain valve assembies 1-12-075, 1-12-085, & 1-12-086.
C13101	Hanger Load Balance, set new loads, and permanent removal of snubber supports.
C13102	Installation of new Stainless Steel Butterfly Valve 1-12-061.
C13103	Installation of new fire hose connection to RHRSW in ESSW Pump House. Valve 0-12-63.

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: 7 July, 1992

Sheet 5 of 6

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

Unit: ONE

DCP'S: 88-3031 SEE PAGE 4 FOR WA'S (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM 016A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 5 FOR EXCEPTIONS TO CONSTRUCTION CODE.

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

EXCEPTIONS TO CONSTRUCTION CODE FROM PAGE 1:

VALVE #'S:	CODE YEAR & ADDENDA	CODE CASES:
0-12-063	Section III 1971, Winter 1972	1567
1-12-061	Section III 1971, Winter 1972	NONE
1-12-075	Section III 1974, Winter 1974	NONE
1-12-085	Section III 1971, Winter 1972	1567
1-12-086	Section III 1974, Winter 1974	NONE

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

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

Date: 7 July, 1992

Sheet 6 of 6

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

Unit: ONE

DCP'S: 88-3031 SEE PAGE 4 FOR WA'S (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM 016A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 5 FOR EXCEPTIONS TO CONSTRUCTION CODE.

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

TESTS CONDUCTED

VALVE #'S	TYPE TEST:	PRES:	TEMP:	DOCUMENT:
0-12-063	System Leak	95	50	SE-216-301
1-12-061	Hydrostatic	185	68	SE-116-311
1-12-075	Hydrostatic	185	68	SE-116-311
1-12-085	Hydrostatic	185	68	SE-116-311
1-12-086	Hydrostatic	185	68	SE-116-311
HRC-112	Hydrostatic	185	68	SE-116-311
HRC-114	Hydrostatic	185	68	SE-116-311

FORM NPV-1 N CERTIFICATE HOLDER'S DATA REPORT FOR PUMPS OR VALVES

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

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, PA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Wafer Valve, Nominal Inlet Size 20" (inch) Outlet Size 20" (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)	815L	ND-285990-03	N/A	ND-285990-01 Rev. B	3	N/A	1990
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. *Station, 5Mi NE of Berwick on U.S. RT11
(Brief description of service for which equipment was designed)

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	AMSE - SA		
PZN-2	351 Gr. CF8M	Neles-Jamesbury	Body
PZU-1	351 Gr. CF8M	Stainless Foundry	Disc
(b) Forgings			

(1) For manually operated valves only.

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

No. 90-12 RECORD PACKAGE 10 OF 58

(6/83) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

9107821059

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME - SA		
1G8192	193 Gr. B8	Moya Machine	Max HD Cap Screw
(d) Other Parts	ASME - SA		
BAH-1	240 TYPE 316	Jessop Steel	Cover Plate

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

ND-285990-01B

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1971.
Addenda Winter - 72 (Date). Code Case No. NONE. Date 25 Oct 1990
Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Gerald V. Mercado
Our ASME Certificate of Authorization No. N-1228 to use the N (sy) symbol expires 10-27-90 (Date).

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
Stress analysis report (Class T only) on file at N/A

Design specifications certified by (1) Dale Sattar
PE State PA Reg. No. PE 019525E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MA and employed by Protection Mutual of Norwood, Mass have inspected the pump, or valve, described in this Data Report on Oct 26 19 90, 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.

FACTORY MUTUAL SYSTEMS

Date Oct 26 19 90

(Inspector)

Commissions PA wc 2758, MA 1207 (Nat'l Bd., State, Prov. and No.)

No. 90-1244
RECORD PACKAGE
PAGE 11 OF 58

9107327060

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. EB323

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 9-43270-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant 5 Miles N.E. of Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. ~~Pump~~ Valve Identification EB323-1-19

3"-150#-DD Gate Valve w/10" Handwheel

(Brief description of service for which equipment was designed)

(a) Drawing No. W9023183 R/B Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 275 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1567

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#T4726 S/N 4	SA351-CF8M	Quaker Alloy, Inc.	
Bonnet HT.#T4723 S/N 7	SA351-CF8M	Quaker Alloy, Inc.	
(b) Forgings			
N/A			

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	Bonnet Studs	SA193-B7	Texas Bolt Company	
	HT.#8875009			
	Bonnet Nuts	SA194-2H	Texas Bolt Company	
	HT.#6014728			
(d)	Other Parts			
	Disc HT.#A326	SA479-316L	LTV Steel	
	S/N 65 & 66			

8. Hydrostatic test 425 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by D. 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 8/21 19 90 Signed Anchor/Darling Valve Co. (Manufacturer) By R L Stannett

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~XXXXXXX~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 4-11 thru 8-21 19 90, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 8-21 19 90

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

Charles Young

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. EB323

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 9-43270-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant 5 Miles N.E. of Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. ~~Pump~~ Valve Identification EB323-1-20

3"-150#-DD Gate Valve w/10" Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9023183 R/B Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 275 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1567

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#T4726 S/N 5	SA351-CF8M	Quaker Alloy, Inc.	
Bonnet HT.#T4723 S/N 11	SA351-CF8M	Quaker Alloy, Inc.	
(b) Forgings			
N/A			

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Bonnet Studs	SA193-B7	Texas Bolt Company	
HT.#8875009			
Bonnet Nuts	SA194-2H	Texas Bolt Company	
HT.#6014728			
(d) Other Parts			
Disc HT.#A326	SA479-316L	LTV Steel	
S/N 67			
Disc HT.#17543	SA240-316L	Jessop Steel Company	
S/N 45			

8. Hydrostatic test 425 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by D. 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 8/21 19 90 Signed Anchor/Darling Valve Co. By R L Stannert
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~PENNSYLVANIA~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 8-11 thru 8-21 19 90, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 8-21 19 90

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

Charles Young

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Yarway Corporation, Blue Bell, PA (Name & Address of Manufacturer) Order No. 60511

2. Manufactured for Bechtel Power Corporation (Name and Address) Order No. 9645-M-251.

3. Owner Mississippi Power and Light Company

4. Location of Plant Port Gibson, Mississippi

5. Pump or Valve Identification Nuclear Service Valves - Serial Numbers 7860 Thru 7866
(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 ____ (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	A8	AMS 5362	Nova/Howmet	Disc
(b) Forgings	R6	SA 105	Cape Ann Tool Co	Body
	YW 684	SA 193-B7	Republic Steel	Backseat Bushing

(1) For manually operated valves only.

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

**S/N 7860 thru 7866

FORM NPV-1 (back)

	Rack 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. Haeemes (1) Prof. Eng. State Mass Reg. No. [illegible]

Stress analysis report certified by Harold I. Gregg (1) Prof. Eng. State Pa. Reg. No. [illegible]

(1) Signature not required. List name only.

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

Date March 18, 19 77 Signed Yarway Corporation (Manufacturer) By W. A. Volger

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 or Province of Pennsylvania and employed by Phila. Manufacturers Mutual of Insurance Co.* Phila. PA have inspected the equipment described in this Data Report on March 18, 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date March 18 19 77

(Inspector) David L. Coullary Commissions NB 7525 PA 2159 (National Board, State, Province and No.)

*Part of the Factory Mutual System

**Corrected copy - Mfg. Rep. W A Volger 11/1/78 ANI. [illegible] 8/13/78

PO 80799

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Yarway Corporation, Blue Bell, PA (Name & Address of Manufacturer) Order No. 40761

2. Manufactured for Bechtel Power Corporation (Name and Address) Order No. 9645-M-251.

3. Owner Mississippi Power and Light Company

4. Location of Plant Port Gibson, Mississippi

5. Pump or Valve Identification Nuclear Service Valves - Serial Numbers 7684 Thru 7688
(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 (

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	A7	AMS 5382	Nova/Howmet	Disc
(b) Forgings	N5	SA 105	Cape Ann Tool Co	Body
	YW 684	SA 193 Gr.B7	Republic Steel	Backseat Bush

(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.

**S/N 7684 thru 7688

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 Ill. Reg. No. 5664

Stress analysis report certified by Harold I. Gregg (1) Prof. Eng. State Pa. Reg. No. 08538

(1) Signature not required. List name only.

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

Date February 11 19 77 Signed Yarway Corporation (Manufacturer) By W. A. Volger

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 of Insurance Co.* Phila. PA have inspected the equipment described in this Data Report on February 11 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date February 11 19 77

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

Scott Hewitt

*Part of the Factory Mutual System

**Corrected copy - Mfg. Rep W A Volger 11/1/78 ANI. [illegible] 11/3/78

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

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

Date: June 25, 1992

Sheet 1 of 3

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

Unit: ONE

PMR#'S 91-9013A, B, C & D/WA#'S C13365, C13368, C13515, C13517, C13518, C13520, C13521, C13522, & C13524
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STANDBY DIESEL GENERATOR FUEL TRANSFER SYSTEM, 023B, CLASS III

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
A D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2007	1990	REPLACED	NO
A D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2007	1991	REPLACEMENT	NO
A D/G FUEL OIL HEADER VENT TUBING	PP&L	N/A	N/A	C-2007	1991	REPLACEMENT	NO
A D/G FUEL OIL VENT TUBE SUPPORTS	PP&L	N/A	N/A	C-2007	1991	REPLACEMENT	NO
B D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2008	1990	REPLACED	NO

7. Description of Work: AT DIESEL GENERATORS A THRU D, INSTALL A LOOP SEAL TO THE EXISTING FUEL INJECTION PUMP FLOWING VENT LINES AND INSTALL A NEW FUEL SUPPLY HEADER VENT WHICH ALSO CONTAINS A LOOP SEAL.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure N/A psi Test Temp. AMBIENT °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 S. Y. Slad Date July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 5-15-91 to 7-26-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7525 PA 2159 NI

National Board, State, Province, and Endorsements

Date July 22 19 92

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

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

Date: June 25, 1992

Sheet 2 of 3

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

Unit: ONE

PMR#'S 91-9013A, B, C, & D/ WA#'S C13365, C13368, C13515, C13517, C13518, C13520, C13521 & C13524
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: STANDBY DIESEL GENERATOR FUEL TRANSFER SYSTEM, 023B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
B D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2008	1991	REPLACEMENT	NO
B D/G FUEL OIL HEADER VENT TUBING	PP&L	N/A	N/A	C-2008	1991	REPLACEMENT	NO
B D/G FUEL OIL VENT TUBE SUPPORTS	PP&L	N/A	N/A	C-2008	1991	REPLACEMENT	NO
C D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2009	1990	REPLACED	NO
C D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2009	1991	REPLACEMENT	NO
C D/G FUEL OIL HEADER VENT TUBING	PP&L	N/A	N/A	C-2009	1991	REPLACEMENT	NO
C D/G FUEL OIL VENT TUBE SUPPORTS	PP&L	N/A	N/A	C-2009	1991	REPLACEMENT	NO
D D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2010	1990	REPLACED	NO
D D/G FUEL OIL FLOWING VENT TUBING	PP&L	N/A	N/A	C-2010	1991	REPLACEMENT	NO

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

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

Date: June 25, 1992

Sheet 3 of 3

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

Unit: ONE

PMR#'S 91-9013A, B, C, & D/ WA#'S C13365, C13368, C13515, C13517, C13518, C13520, C13521 & C13524
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STANDBY DIESEL GENERATOR FUEL TRANSFER SYSTEM, 023B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
D D/G FUEL OIL HEADER VENT TUBING	PP&L	N/A	N/A	C-2010	1991	REPLACEMENT	NO
D D/G FUEL OIL VENT TUBE SUPPORTS	PP&L	N/A	N/A	C-2010	1991	REPLACEMENT	NO

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

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

Date: June 25, 1992

Sheet 1 of 1

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

Unit: ONE

PMR#'S 90-3046B & D/ WA#'S C13920, C13955, & C14158 (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: DIESEL GENERATOR AND AUXILIARY SYSTEM, 024A, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'B' DIESEL JACKET WATER COOLER TUBE BUNDLE	AMERICAN STANDARD	7-20009-01-4	N/A	0E507B	1975	REPLACED	YES
'B' DIESEL JACKET WATER COOLER TUBE BUNDLE	AMERICAN STANDARD	91U98629-01-2	N/A	0E507B	1991	REPLACEMENT	YES
'D' DIESEL JACKET WATER COOLER TUBE BUNDLE	AMERICAN STANDARD	7-20009-01-2	N/A	0E507D	1975	REPLACED	YES
'D' DIESEL JACKET WATER COOLER TUBE BUNDLE	AMERICAN STANDARD	91U98629-01-1	N/A	0E507D	1991	REPLACEMENT	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-9-H2013	1982	REPAIRED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-9-H2015	1982	REPAIRED	NO

7. Description of Work: REPLACED TUBE BUNDLE ASSEMBLY AT 'B' & 'D' D/G JACKET WATER COOLERS

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X]
Other [ ] Pressure 100 psi Test Temp. AMBIENT °F PER SE-054-301

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 MANUFACTURER'S CODE DATA REPORTS ARE ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (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 S. Y. S. [illegible] Date July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 10-22-91 to 11-22-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[illegible] Commissions NB 7525 PA 2159 NI

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

Date JUL/ 22 19 92

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer

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

BUNDLE

1. Manufactured and certified by ITT STANDARD, ITT FLUID TECHNOLOGY CORP., 175 Standard Pkwy, Chktg, NY 14227
(Name and address of manufacturer)

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

3. Location of installation PENNSYLVANIA POWER & LIGHT, BERWICK, PENNSYLVANIA
(Name and address)

4. Type HORIZ.H.E.BUNDLE (Horiz. or vert., tank) 91U98629-01-2 THRU 01-4 (Mfgr's serial No. of Part) ____ (CRN) 4-108-15-114-003 Rev. 1 (Drawing No.) ----- (Nat'l. Bd. No.) 1991 (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 1989 (Year)

~~A-89~~ A-90 ~~A-91~~ (Addenda (date)) - (Code Case No.) - (Special service per UG-120(d))

6. (a) Drawing prepared by ITT STANDARD (b) Description of part inspected TUBE BUNDLE

7. Postweld heat treatment: Temp. N/A °F Time N/A

Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

8. Shell: NONE (Matl. (Spec. No., Grade)) NONE (Nom. Thk. (in.)) NONE (Corr. Allow. (in.)) NONE (Diam. I.D. (ft & in.)) NONE (Length (Overall)(ft & in.))

9. Seams: NONE (Long. (Wld., Dbl., Sngl., Lap, Butt)) NONE (R.T. (Spot or Full)) NONE (Eff. (%)) NONE (H.T. Temp. (°F)) NONE (Time) NONE (Girth (Wld., Dbl., Sngl., Lap, Butt)) NONE (R.T. (Spot, Partial, or Full)) NONE (No. of Courses)

10. Heads: (a) Matl. NONE (Spec. No., Grade) (b) Matl. NONE (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)
NONE	--	--	--	--	--	--	--	---	--
NONE	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) N/A (Matl., Spec. No., Gr., Size, No.)

11. Type of Jacket NONE Proof Test NONE

12. Jacket Closure NONE (Describe as ogee & weld, bar, etc.) If bar, give dimensions NONE

If bolted, describe of sketch.

13. MAWP NONE psi at max. temp. NONE °F Min. design metal temp. NONE °F at NONE psi.

Hydro., pneu., or comb. test press. NONE

Items 14 and 15 to be completed for tube sections

14. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) 17.25 (Diam. (in.)(Subject to pressure)) .938 (Nom. Thk. (in.)) NONE (Corr. Allow. (in.)) BOLTED (Attach. (Wld., Bolted))

SB-688 (Floating Matl. (Spec No., Gr.)) 15 (Diam. (in.)) 1.625 (Nom. Thk. (in.)) NONE (Corr. Allow. (in.)) PACKED (Attach.)

15. Tubes: SB-676 (Matl. (Spec. No., Gr.)) .625 (O.D. (in.)) 18 BWG (Nom. Thk. (in. or Gauge)) 278 (No.) STRAIGHT (Type (Straight or "U"))

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

16. Shell: NONE (Matl. (Spec. No., Grade)) NONE (Nom. Thk. (in.)) NONE (Corr. Allow. (in.)) NONE (Diam. I.D. (ft & in.)) NONE (Length (overall)(ft & in.))

17. Seams: NONE (Long. (Wld., Dbl., Sngl., Lap, Butt)) NONE (R.T. (Spot or Full)) NONE (Eff. (%)) NONE (H.T. Temp. (°F)) NON (Time) NONE (Girth (Wld., Dbl., Sngl., Lap, Butt)) NONE (R.T. (Spot, Partial, or Full)) NONE (No. of Courses)

18. Heads: (a) Matl. NONE (Spec. No., Grade) (b) Matl. NONE (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)
NONE	--	--	--	--	--	--	--	--	--
NONE	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) NONE (Matl., Spec. No., Gr., Size, No.)

Form U-2 (Back)

BUNDLE

19. MAWP 150 psi at max. temp. 300 °F Min. design metal temp. -20 °F at 150

Hydro., pneu., or comb. test press. 225 psi.

Items below to be completed for all vessels where applicable

20. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
NONE	--	--------	------	----------	--------	----------	------	------

21. Supports: Skirt NO (Yes or no) Lugs NO (No.) Legs NO (No.) Other NONE (Describe) Attached NONE (Where and how)

22. Remarks: BUNDLE TUBE LENGTH = 114 INCHES
DESIGN FUNCTION = 100%

SAFETY VALVE/OVER PRESS... PROVIDED BY USER

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. 8740 expires 2/28/ 19 92

Date 10/31/91 Co. name ITT STANDARD, ITT FTC (Manufacturer) Signed R. R. Warner (Representative) Q.A. Mgr.

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 New York and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, Conn. have inspected the pressure vessel described in this Manufacturers' Partial Data Report on Oct 31 19 91, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/31/91 Signed (Authorized Inspector) Commissions NY2939 (Nat'l Board (incl. endorsements), State, Prov., and No.)

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

BUNDLE

1. Manufactured and certified by ITT STANDARD, ITT FLUID TECHNOLOGY CORP., 175 Standard Pkwy, Chktg, NY 14227
(Name and address of manufacturer)

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

3. Location of installation PENNSYLVANIA POWER & LIGHT, BERWICK, PENNSYLVANIA
(Name and address)

4. Type HORIZ.H.E.BUNDLE (Horiz. or vert., tank) | 91U98629-01-1 (Mfgr's serial No. of Part) | (CRN) | 4-108-15-114-003 (Drawing No.) | ----- (Nat'l. Bd. No.) | 1991 (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 Rev. 1 1989 (Year)

A-90 (Addenda (date)) | - (Code Case No.) | - (Special service per UG-120(d))

6. (a) Drawing prepared by ITT STANDARD (b) Description of part inspected TUBE BUNDLE

7. Postweld heat treatment: Temp. N/A °F Time N/A

Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

8. Shell: NONE (Matl. (Spec. No., Grade)) | NONE (Nom. Thk. (in.)) | NONE (Corr. Allow. (in.)) | NONE (Diam. I.D. (ft & in.)) | NONE (Length (Overall)(ft & in.))

9. Seams: NONE (Long. (Wld., Dbl., Sngl., Lap, Butt)) | NONE (R.T. (Spot or Full)) | NONE (Eff. (%)) | NONE (H.T. Temp. (°F)) | NONE (Time) | NONE (Girth (Wld., Dbl., Sngl., Lap, Butt)) | NONE (R.T. (Spot, Partial, or Full)) | NONE (No. of Courses)

10. Heads: (a) Matl. NONE (Spec. No., Grade) (b) Matl. NONE (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)
NONE	--	--	--	--	--	--	--	---	--
NONE	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) N/A (Matl., Spec. No., Gr., Size, No.)

11. Type of Jacket NONE Proof Test NONE

12. Jacket Closure NONE (Describe as ogee & weld, bar, etc.) If bar, give dimensions NONE
If bolted, describe of sketch.

13. MAWP NONE psi at max. temp. NONE °F Min. design metal temp. NONE °F at NONE psi.
Hydro., pneu., or comb. test press. NONE

Items 14 and 15 to be completed for tube sections

14. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 17.25 (Diam. (in.)(Subject to pressure)) | .938 (Nom. Thk. (in.)) | NONE (Corr. Allow. (in.)) | BOLTED (Attach. (Wld., Bolted))
SB-688 (Floating Matl. (Spec No., Gr.)) | 15 (Diam. (in.)) | 1.625 (Nom. Thk. (in.)) | NONE (Corr. Allow. (in.)) | PACKED (Attach.)

15. Tubes: SB-676 (Matl. (Spec. No., Gr.)) | .625 (O.D. (in.)) | 18 BWG (Nom. Thk. (in. or Gauge)) | 278 (No.) | STRAIGHT (Type (Straight or "U"))

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

16. Shell: NONE (Matl. (Spec. No., Grade)) | NONE (Nom. Thk. (in.)) | NONE (Corr. Allow. (in.)) | NONE (Diam. I.D. (ft & in.)) | NONE (Length (overall)(ft & in.))

17. Seams: NONE (Long. (Wld., Dbl., Sngl., Lap, Butt)) | NONE (R.T. (Spot or Full)) | NONE (Eff. (%)) | NONE (H.T. Temp. (°F)) | NON (Time) | NONE (Girth (Wld., Dbl., Sngl., Lap, Butt)) | NONE (R.T. (Spot, Partial, or Full)) | NONE (No. of Courses)

18. Heads: (a) Matl. NONE (Spec. No., Grade) (b) Matl. NONE (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)
NONE	--	--	--	--	--	--	--	--	--
NONE	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) NONE (Matl., Spec. No., Gr., Size, No.)

Form U-2 (Back)

BUNDLE

19. MAWP 150 psi at max. temp. 300 °F Min. design metal temp. -20 °F at 150 psi.
Hydro., pneu., or comb. test press. 225 psi.

Items below to be completed for all vessels where applicable

20. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat.	Nom. Thk.	Reinforcement Mat.	How Attached	Location
NONE	--							

21. Supports: Skirt NO (Yes or no) Lugs NO (No.) Legs NO (No.) Other NONE (Describe) Attached NONE (Where and how)

22. Remarks: BUNDLE TUBE LENGTH = 114 INCHES
DESIGN FUNCTION = 100%

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. 8740 expires 12/28, 1992.

Date 10/30/91 Co. name ITT STANDARD, ITT FTC (Manufacturer) Signed L.L. Warner (Representative) Q.A. Mgr.

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 New York and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, Conn. have inspected the pressure vessel described in this Manufacturers' Partial Data Report on Oct 30 19 91, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/30 Signed (Authorized Inspector) Commissions NY2939 (Nat'l Board (incl. endorsements), State, Prov., and No.)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) — DCP 89-3031, WA C-13344 (P.O. no., job no., etc.)

(address)

2. Owner Pennsylvania Power and Light Co. (name)

Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

Berwick, PA 18603 (address)

4. Unit identification: Electric Boiler (boiler, pressure vessel) Name of original manufacturer Boiler Engineering & Supply Co. Inc.

5. Identifying nos.: 15476 (mfr's. serial no.) 11792 (original National Board no.) PAB111232 (jurisdiction no.) (other) 1975 (year built)

6. Description of work: Modify Conductivity Sampling Piping External to Boiler. (use back, separate sheet, or sketch if necessary)

WA C13372 Pressure test, if applied 250 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: AUX Boiler OS101A
SP-GBH-3-1

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229 NB-68 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. N/A to use the N/A symbol expires N/A 19 N/A

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of N/A and employed by N/A N/A of N/A 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 N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A

Date July 16 1992 Penna., Power & Light Co. (repair or alteration organization) Signed [illegible] (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on July 22 19 92 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.

Date July 22 19 92 Signed [illegible] (Authorized Inspector) Commissions NB 7525 PA 2159 NJ (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) — DCP 89-3031, WA C-13345 (P.O. no., job no., etc.)

(address)

2. Owner Pennsylvania Power and Light Co. (name)

Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

Berwick, PA 18603 (address)

4. Unit identification: Electric Boiler (boiler, pressure vessel) Name of original manufacturer Boiler Engineering & Supply Co.Inc.

5. Identifying nos.: 15477 (mfr's. serial no.) 11793 (original National Board no.) PAB111233 (jurisdiction no.) (other) 1975 (year built)

6. Description of work: Modify Conductivity Sampling Piping External to Boiler. (use back, separate sheet, or shaten if necessary)

WA C13372 Pressure test, if applied 250 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: AUX Boiler OS101B
SP-GBH-3-1

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229 NB-65 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. N/A to use the N/A symbol expires N/A 19 N/A

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of N/A and employed by N/A N/A of N/A 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 N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (National Board (incl. endorsements), state, prov. and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A

Date July 16 19 92 Penna., Power & Light Co. (repair or alteration organization) Signed [illegible] (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on July 22 19 92 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.

Date July 22 19 92 Signed [illegible] (Authorized Inspector) Commissions NB 7525 PA 2109 NJ (National Board (incl. endorsements), state, prov., and no.)

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

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

Date: 15 July, 1992

Sheet 1 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
20", 150#, CHECK VALVE	ANCHOR DARLING	E5854-101-1	N/A	2-12-010	1976	REPLACED	YES
20", 150#, CHECK VALVE	ANCHOR DARLING	E5854-100-1	N/A	1-12-010	1979	REPLACED	YES
20", 150#, S.S. BALL VALVE	JAMESBURY	ND260312-01C	N/A	1-12-082	1989	REPLACEMENT	YES
20", 150#, S.S. BALL VALVE	JAMESBURY	ND260312-01B	N/A	2-12-082	1989	REPLACEMENT	YES
20", C. S. SPACER	JAMESBURY	PYJ-4	N/A	1-12-082	1989	REPLACEMENT	YES
20", C. S. SPACER	JAMESBURY	PYJ-3	N/A	2-12-082	1989	REPLACEMENT	YES

7. Description of Work: RHR HX ISOLATION VALVES, NEW DRN VALVES & ESW BLDG ISOLATION VALVES

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE PAGES 9 &10
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; Forms NPV-1 & N-2, 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 SCHal Date July 17, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-1-91 to 4-2-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7525 PA2159 NI
National Board, State, Province, and Endorsements

Date July 22 1992

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: 3 July, 1992

Sheet 2 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-1/8" -8, B7, STUD BOLTS	BECHTEL	RIR A264331 HT CD: BS48	N/A	1-12-010	1982	REPLACED	YES
1-1/8" -8, B7, STUD BOLTS	BECHTEL	RIR A328111 HT CD: EC26	N/A	1-12-010	1982	REPLACED	YES
1-1/8" -8, B7, STUD BOLTS	BECHTEL	RIR A225981 HT CD: BS54	N/A	1-12-010	1982	REPLACED	YES
1-1/8" -8, 2H, HEAVY HEX NUTS	BECHTEL	PO# F47912 HT CD: LE24	N/A	1-12-010	1982	REPLACED	YES
1-1/8" -8, X 6-3/4" B7, STUD BOLTS	PP&L	XFR# 5621 HT CD: BG64	N/A	1-12-082	1991	REPLACEMENT	NO
1-1/8" -8, X 9" B7, STUD BOLTS	PP&L	RIR 90-1102 HT# 8095014	N/A	1-12-082	1991	REPLACEMENT	NO
1-1/8" -8, 2H HEAVY HEX NUTS	PP&L	RIR 90-0631 HT CD: QF58	N/A	1-12-082	1991	REPLACEMENT	NO
1-1/8" -8, B7, STUD BOLTS	BECHTEL	PO# F40557 HT CD: KG65	N/A	2-12-010	1982	REPLACED	YES
1-1/8" -8, 2H, HEAVY HEX NUTS	BECHTEL	PO# F40557 HT CD: KG86	N/A	2-12-010	1982	REPLACED	YES
1-1/8" -8, X 6-3/4" B7, STUD BOLTS	PP&L	XFR# 5621 HT CD: BG64	N/A	1-12-082	1991	REPLACEMENT	NO
1-1/8" -8, X 9" B7, STUD BOLTS	PP&L	RIR 90-1102 HT# 8095014	N/A	1-12-082	1991	REPLACEMENT	NO

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

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

Date: 3 July, 1992

Sheet 3 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-1/8" -8, 2H HEAVY HEX NUTS	PP&L	RIR 90-0631 HT CD: QF58	N/A	1-12-082	1991	REPLACEMENT	NO
14", 150#, C.S., BUTTERFLY VALVE	JAMESBURY	ND-36247-02A	N/A	1-11-103	1978	REPLACED	YES
14", 150#, S.S. BUTTERFLY VALVE	C&S	90-1177-02(N)-01	N/A	1-11-103	1990	REPLACEMENT	YES
14", 150#, C.S., BUTTERFLY VALVE	CONTRA-MATICS	87460-1-2	N/A	1-11-187	1980	REPLACED	YES
14", 150#, S.S. BUTTERFLY VALVE	C&S	90-1177-02(N)-02	N/A	1-11-187	1990	REPLACEMENT	YES
LARGE PIPE SUB ASSEMBLY	BECHTEL	NONE	N/A	HRC-101-1	1982	REPLACED	YES
LARGE PIPE SUB ASSEMBLY	PP&L	NONE	N/A	HRC-101-1	1991	REPLACEMENT	NO
LARGE PIPE SUB ASSEMBLY	BECHTEL	NONE	N/A	HRC-106-1	1982	REPLACED	YES
LARGE PIPE SUB ASSEMBLY	PP&L	NONE	N/A	HRC-106-1	1991	REPLACEMENT	NO
12", 150#, C.S., BUTTERFLY VALVE	JAMESBURY	ND-36247-01B	N/A	2-11-103	1977	REPLACED	YES
12", 150#, S.S. BUTTERFLY VALVE	C&S	90-1177-01(N)-01	N/A	2-11-103	1990	REPLACEMENT	YES

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

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

Date: 3 July, 1992

Sheet 4 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
12", 150#, C.S., BUTTERFLY VALVE	CONTRA-MATICS	87452-1-2	N/A	2-11-190	1979	REPLACED	YES
12", 150#, S.S. BUTTERFLY VALVE	C&S	90-1177-01(N)-02	N/A	2-11-190	1990	REPLACEMENT	YES
LARGE PIPE SUB ASSEMBLY	BECHTEL	NONE	N/A	HRC-201-1	1982	REPLACED	YES
LARGE PIPE SUB ASSEMBLY	PP&L	NONE	N/A	HRC-201-1	1991	REPLACEMENT	NO
LARGE PIPE SUB ASSEMBLY	BECHTEL	NONE	N/A	HRC-206-1	1982	REPLACED	YES
LARGE PIPE SUB ASSEMBLY	PP&L	NONE	N/A	HRC-206-1	1991	REPLACEMENT	NO
2", 150#, S.S. BALL VALVE	JAMESBURY	ND-286829-03L	N/A	1-11-171	1990	REPLACEMENT	YES
2", 150#, S.S. BALL VALVE	JAMESBURY	ND-286829-03T	N/A	2-11-171	1990	REPLACEMENT	YES
2", 150#, S.S. BALL VALVE	JAMESBURY	ND-286829-03S	N/A	2-11-172	1990	REPLACEMENT	YES
SMALL PIPE DRAIN ASSEMBLY	PP&L	NONE	N/A	SP-HRC-106-1	1991	REPLACEMENT	NO
SMALL PIPE DRAIN ASSEMBLY	PP&L	NONE	N/A	SP-HRC-201-2	1991	REPLACEMENT	NO

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

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

Date: 3 July, 1992

Sheet 5 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

Name of 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 DRAIN ASSEMBLY	PP&L	NONE	N/A	SP-HRC-206-2	1991	REPLACEMENT	NO

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

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

Date: 3 July, 1992

Sheet 6 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

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

WA#'s:	Description of Work Performed:
C04414	Shop fabrication of spool pieces; inspect, pack, and testing of valves; and other miscellaneous prep work
C04410	Installed branch connection and associated components for drain valve assembly 1-11-171, SP-HRC-106-2.
C04412	Hot Tapped 2" drain 1-11-171, SP-HRC-106-2.
C04411	Installed branch connection and associated components for drain valve assembies 2-11-171, SP-HRC-206-2; & 2-11-172, SP-HRC-201-2.
C04413	Hot Tapped 2" drains 2-11-171, SP-HRC-206-2; & 2-11-172, SP-HRC-201-2.
C13099	Removal of existing Check Valve 1-12-010. Instalation of new Stainless Ball Valve 1-12-082, and carbon spacer.

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: 3 July, 1992

Sheet 7 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
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: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

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

WA#'s:	Description of Work Performed: (Continued)
C13110	Removal of existing Check Valve 2-12-010. Instalation of new Stainless Steel Ball Valve 2-12-082, and carbon steel spacer.
C04417	Hanger Load Balance, and set new loads. Unit I pipe support activities.
C04418	Hanger Load Balance, and set new loads. Unit II pipe support activities.
C04415	Change out of building isolation valves 1-11-103 and 1-11-187.
C04416	Change out of building isolation valves 2-11-103 and 2-11-190.

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: 3 July, 1992

Sheet 8 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

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

EXCEPTIONS TO CONSTRUCTION CODE FROM PAGE 1:

VALVE #'S:	CODE YEAR & ADDENDA	CODE CASES:
1-12-082	Section III 1974, No Addenda	NONE
Spacers PYJ-4	Section III 1974, No Addenda	NONE
2-12-082	Section III 1974, No Addenda	NONE
Spacer PYJ-3	Section III 1974, No Addenda	NONE
1-11-103	Section III 1971, Winter 1972	NONE
1-11-187	Section III 1971, Winter 1972	NONE
2-11-103	Section III 1971, Winter 1972	NONE
2-11-190	Section III 1971, Winter 1972	NONE
1-11-171	Section III 1974, Winter 1975	NONE
2-11-171	Section III 1974, Winter 1975	NONE
2-11-172	Section III 1974, Winter 1975	NONE

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

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

Date: 3 July, 1992

Sheet 9 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

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

TESTS CONDUCTED

VALVE #'S	TYPE TEST:	PRES:	TEMP:	DOCUMENT:
1-12-082	System Leak	95	50	SE-116-301
Spacer PYJ-4	System Leak	95	50	SE-116-301
2-12-082	System Leak	95	50	SE-216-301
Spacer PYJ-3	System Leak	95	50	SE-216-301
1-11-103	System Leak	130	50	SE-054-301
1-11-187	System Leak	130	50	SE-054-301
HRC-101-1	Hydrostatic	195	76	WA# C04415
	System Leak	130	50	SE-054-301
HRC-106-1	Hydrostatic	225	60	WA# C04414
	System Leak	130	50	SE-054-301

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: 3 July, 1992

Sheet 10 of 10

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

Unit: ONE

DCP'S 88-3031, 88-3032, & 90-3005
SEE PAGES 6 & 7, FOR LIST OF WA #'S
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: EMERGENCY SERVICE WATER 054A-III

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 8, FOR EXCEPTIONS TO CONSTRUCTION CODE

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

TESTS CONDUCTED: (CONT'D)

VALVE #'S	TYPE TEST:	PRES:	TEMP:	DOCUMENT:
2-11-103	System Leak	130	50	SE-054-301
2-11-190	System Leak	130	50	SE-054-301
HRC-201-1	Hydrostatic	186	74	WA# C04416
	System Leak	130	50	SE-054-301
HRC-206-1	Hydrostatic	221	56	WA# C04414
	System Leak	130	50	SE-054-301
1-11-171	System Leak	130	50	SE-054-301
2-11-171	System Leak	130	50	SE-054-301
2-11-172	System Leak	130	50	SE-054-301
SP-HRC-201-1	Pneumaticc	195	72	WA# C04411
	System Leak	130	50	SE-054-301
SP-HRC-206-1	Hydrostatic	221	56	WA# C04414
	System Leak	130	50	SE-054-301

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

1. Manufactured by Jamesbury Corp. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Susquehanna S.E.S., 5 MI. NE of Berwick on RT 11, Berwick, PA 18603
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size 20 (inch) Outlet Size 20 (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)	5150	ND260312-01C	N/A	ND260312-01 Rev. D	3	N/A	1989
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Isolate RHR service water from the RHR heat exchangers
(Brief description of service for which equipment was designed)

6. Design Conditions 177 (Pressure) psi 150 (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME SA		
PYX-1	351 Gr. CF8M	Jamesbury Corp.	Body
PYP-1	351 Gr. CF8M	Jamesbury Corp.	Cap
PZA-1	351 Gr. CF8M	Stainless Foundry	Ball
(b) Forgings			

(1) For manually operated valves only.

P.O. & L. Doc. No. 45

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

Supplemental sheets may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

9005 0 7 0 0 9

(c) Bolting	ASME SA		
CG53	193 Gr. B7	Texas Bolt	All Thread Stud.
CG54	193 Gr. B7	Texas Bolt	All Thread Stud
CG50	194 Gr. 2H	Texas Bolt	Hex Nut
CG 51	193 Gr. B7	Texas Bolt	Hex Head Cap Screw
(d) Other Parts	ASME SA		
PYR	479 Type 316	Jamesbury Corp.	Stem Retainer

9. Hydrostatic test 425 psi. Disk Differential test pressure N/A psi ND260312-01 C

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974.
Addenda NONE (Date), Code Case No. NONE. Date 1/16/90
Signed Jamesbury Corp. (N Certificate Holder) by [signature]
Our ASME Certificate of Authorization No. N1228 to use the N (N) symbol expires 10-27-90 (Date).

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Allentown, PA 18101
Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Frank James Czysz
PE State PA Reg. No. 25049-E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NEW YORK and employed by Lumbermen's Mut'l Casulty Co. of Long Grove, ILL have inspected the pump, or valve, described in this Data Report on 1/16 19 90, 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 1/16/90 19
[signature] (Inspector) Commissions NB6172 NY2392 (Nat'l Bd., State, Prov. and No.)

PAGE 12 of 91

P.P. & L. Doc. No. 45

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

1. Manufactured by Jamesbury Corp. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)
3. Location of Installation Susquehanna S.E.S., 5 MI. NE of Berwick on RT 11, Berwick, PA 18603
(Name and Address)
4. Pump or Valve Ball Valve. Nominal Inlet Size 20 (inch) Outlet Size 20 (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)	5150	ND260312-01B	N/A	ND260312-01 Rev. D	3	N/A	1989
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Isolate RHR service water from the RHR heat exchangers
(Brief description of service for which equipment was designed)

6. Design Conditions 177 (Pressure) psi 150 (Temperature) °F or Valve Pressure Class 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME SA		
PYK-2	351 Gr. CF8M	Jamesbury Corp.	Body
PYM-1	351 Gr. CF8M	Jamesbury Corp.	Cap
PYT-1	351 Gr. CF8M	Stainless Foundry	Ball
(b) Forgings			

(1) For manually operated valves only.

P.O. & L. Doc. No. 45

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

(9/83) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

	Material Spec. No.		
(c) Bolting	ASME SA		
CG53	193 Gr. B7	Texas Bolt	All Thread Stud
CG54	193 Gr. B7	Texas Bolt	All Thread Stud
CG50	194 Gr. 2H	Texas Bolt	Hex Nut.
CG 51	193 Gr. B7	Texas Bolt	Hex Head Cap Screw
(d) Other Parts	ASME SA		
PYR	479 Type 316	Jamesbury Corp.	Stem Retainer

9. Hydrostatic test 425 psi. Disk Differential test pressure N/A psi ND260312-01B

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974.
Addenda NONE (Date), Code Case No. NONE. Date [illegible]
Signed Jamesbury Corp. (N Certificate Holder) by [illegible]
Our ASME Certificate of Authorization No. N1228 to use the N (N) symbol expires 10-27-90 (Date).

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Allentown, PA 18101
Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Frank James Czysz
PE State PA Reg. No. 25049-E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NEW YORK and employed by Lumberman's Mut'l Casulty Co. of Mt. Prospect, ILL have inspected the pump, or valve, described in this Data Report on January 16, 1990, 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 16 1990.
[illegible] (Inspector) Commissions NB6772 NY 2392 (Nat'l Bd., State, Prov. and No.)

P.P. & L. Doc. No. 45

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 Jamesbury Corp., 640 Lincoln St., Worcester, MA 01605 (name and address of 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 S.E.S., 5 MI. NE of Berwick on RT 11, Berwick, PA 18603 (name and address)

4. Type 036-9177-22 (drawing no.) Rev. B; ASME SA 516 Gr. 70 (mat'l spec. no.); 81400 (tensile strength); N/R (CRN); 1989 (year built)

5. ASME Code, Section III: 1974 (edition); NONE (addenda); 3 (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: Spacers to be used with Valve Serial Numbers ND260312-01A, 01B, 01C and 01D

8. Nom. thickness (in.) 3.750" Min. design thickness (in.) .500" Dia. ID (ft. & in.) 18.625" Length overall (ft. & in.) 2.750"

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) PYJ-1		(26)	
(2) PYJ-2		(27)	
(3) PYJ-3		(28)	
(4) PYJ-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)	

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10. Design pressure 285 psi Temp. 100 °F. Hydro. test pressure 450 PSIG at temp. °F. (when applicable)

P.P. & L. Doc. No. 45

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and number of sheets is recorded at top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

(6/87) This form (E00060) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, NY 10017

9001720105

FORM N-2 (back).

CERTIFICATE OF DESIGN

Design specifications certified by Frank James Czysz P. E. state PA Reg. no. 25049-E

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

CERTIFICATE OF SHOP COMPLIANCE

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

ASME Certificate of Authorization no. N1233 Expires 10-2-90

Date 12/22/89 Name Jamesbury Corp. (NPT Certificate Holder) Signed [illegible] (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 NEW YORK and employed by Lumbermens Mut'l Casulty Co. of Long Grove, ILL have inspected these items described in this data report on DECEMBER 19 1989, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 1/16/90 Signed [illegible] (Authorized Inspector) Commissions NB4172 "NYC" NY 2592 (Nat'l Bd (incl endorsements) state or prov and no)

P.P. & L. Doc. No. 45

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 C&S Valve Company, Tricentric Division; 40 Chestnut Avenue; Westmont, IL
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Company; P.O. BOX 467; Berwick, PA 18603
(name and address of Purchaser)

3. Location of installation Susquehanna Steam Electric Station; Allentown, Pennsylvania
(name and address)

4. Model No., Series No., or Type Water Service Drawing D-1020 Rev. B CRN N/A

5. ASME Code, Section III, Division 1: 1971 (edition) Winter 1972 (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 14" (in.) Outlet size 14" (in.)

7. Material: Body SA 351 GR. CF8M Bonnet N/A Disk SA 351 GR. CF8M Bolting (See other side of page)

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
90-1177-02(N)-01	N/A	Heat: 90133	N/A	Heat: 90133
		Serial: Z130		Serial: Z128

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

Certificate Holder's Serial No. 90-1177-02(N)-01

8. Design conditions 177 (Disc) (pressure) psi 125 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 (Body) psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 195 psi

11. Remarks: Emergency Water Service
Cover Plate & Gland Flange - Material: SA 479 T 316, Heat: YCE
Hex Head Cap Screw - Material: SA 193 GR. B8M, Heat: AQD
Stud - Material: SA 193 GR. B8M, Heat: ARC
Hex Nut - Material: SA 194 GR. 8M, Heat: AQD

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State PA Reg. no. PE 019525E
Design Report certified by N/A 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-2723 Expires 6/20/92

Date 11/2/90 Name C&S Valve Company, Tricentric Div. (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 Illinois and employed by * Allendale Mutual Ins. Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on Nov. 2, 1990, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

* Factory Mutual System

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

Date 11-2-90 Signed [signature] (Authorized Inspector) Commissions N-10168, ILL 1498, Ohio, PA 3386 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

1. Manufactured and certified by C&S Valve Company, Tricentric Division; 40 Chestnut Avenue; Westmont, IL
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Company; P.O. BOX 467; Berwick; PA 18603
(name and address of Purchaser)

3. Location of installation Susquehanna Steam Electric Station; Allentown, Pennsylvania
(name and address)

4. Model No., Series No., or Type Water Service Drawing D-1020 Rev. B CRN N/A

5. ASME Code, Section III, Division 1: 1971 (edition) Winter 1972 (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 14" (in.) Outlet size 14" (in.)

7. Material: Body SA 351 GR. CF8M Bonnet N/A Disk SA 351 GR. CF8M Bolting (See other side of page)

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
90-1177-02(N)-02	N/A	Heat: 90133 Serial: Z131	N/A	Heat: 90133 Serial: Z129

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

Certificate Holder's Serial No. 90-1177-02(N)-02

8. Design conditions 177 (Disc) (pressure) psi 125 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 (Body) psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 195 psi

11. Remarks: Emergency Water Service
Cover Plate & Gland Flange - Material: SA 479 T 316, Heat: YCE
Hex Head Cap Screw - Material: SA 193 GR. B8M, Heat: AQD
Stud - Material: SA 193 GR. B8M, Heat: ARC
Hex Nut - Material: SA 194 GR. 8M, Heat: AQD

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State PA Reg. no. PE 019525E
Design Report certified by N/A 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-2723 Expires 6/20/92

Date 11/2/90 Name C&S Valve Company, Tricentric Div. (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 Illinois and employed by * Allendale Mutual Ins. Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on Nov. 2, 1990, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

* Factory Mutual System

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

Date 11-2-90 Signed [signature] (Authorized Inspector) Commissions NB 10168 IL 1498, OHIO, PA 3386 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

1. Manufactured and certified by C&S Valve Company, Tricentric Division; 40 Chestnut Avenue; Westmont, IL
(name and address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Company; P.O. BOX 467; Berwick, PA 18603
(name and address of Purchaser)
3. Location of installation Susquehanna Steam Electric Station; Allentown, Pennsylvania
(name and address)
4. Model No., Series No., or Type Water Service Drawing D-1019 Rev. B CRN N/A
5. ASME Code, Section III, Division 1: 1971 (edition) Winter 1972 (addenda date) 3 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 12" (in.) Outlet size 12" (in.)
7. Material: Body SA 351 GR. CF8M Bonnet N/A Disk SA 351 GR. CF8M Bolting (See other side of page)

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
90-1177-01(N)-01	N/A	Heat: 90133 Serial: Z124	N/A	Heat: 90133 Serial: Z122

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

Certificate Holder's Serial No. 90-1177-01(N)-01

8. Design conditions 177 (Disc) (pressure) psi 125 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 (Body) psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 195 psi

11. Remarks: Emergency Water Service
Cover Plate - Material: SA 479 T316, Heat: YCE
Hex Head Cap Screw - Material: SA 193 GR. B8M, Heat: AQD
Gland Flange - Material: SA 479 T316, Heat: KDE
Stud - Material: SA 193 GR. B8M, Heat: ARB
Hex Nut - Material: SA 194 GR. 8M

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State PA Reg. no. PE 019525E
Design Report certified by N/A 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-2723 Expires 6/20/92

Date 11/2/90 Name C&S Valve Company, Tricentric Div. (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 Illinois and employed by * Allendale Mutual Ins. Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on Nov. 2, 1990, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

* Factory Mutual System

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

Date 11-02-90 Signed [signature] (Authorized Inspector) Commissions N/A IL 1498, OHIO, PA 5365 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

1. Manufactured and certified by C&S Valve Company, Tricentric Division; 40 Chestnut Avenue; Westmont, IL
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Company; P.O. BOX 467; Berwick, PA 18603
(name and address of Purchaser)

3. Location of installation Susquehanna Steam Electric Station; Allentown, Pennsylvania
(name and address)

4. Model No., Series No., or Type Water Service Drawing D-1019 Rev. B CRN N/A

5. ASME Code, Section III, Division 1: 1971 (edition) Winter 1972 (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 12" (in.) Outlet size 12" (in.)

7. Material: Body SA 351 GR. CF8M Bonnet N/A Disk SA 351 GR. CF8M Bolting (See other side of page)

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
90-1177-01(N)-02	N/A	Heat: 90133 Serial: Z125	N/A	Heat: 90133 Serial: Z123

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

Certificate Holder's Serial No. 90-1177-01(N)-02

8. Design conditions 177 (Disc) (pressure) psi 125 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 (Body) psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 195 psi

11. Remarks: Emergency Water Service
Cover Plate - Material: SA 479 T316, Heat: YCE
Hex Head Cap Screw - Material: SA 193 GR. 8M, Heat: AQD
Gland Glange - Material: SA 479 T316, Heat: KDE
Stud - Material: SA 193 GR. B8M, Heat: ARB
Hex Nut - Material SA 194 GR. 8M

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State PA Reg. no. PE 019525E
Design Report certified by N/A 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-2723 Expires 6/20/92

Date 11/2/90 Name C&S Valve Company, Tricentric Div. (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 Illinois and employed by * Allendale Mutual Ins. Co. of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 7/thru 2, 1990, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

* Factory Mutual System

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

Date 11-2-90 Signed [signature] (Authorized Inspector) Commissions N 10168, IL 1498, OHIO, PA 33864
[Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

(1) For manually operated valves only.

FORM NPV-1 N CERTIF' 'E HOLDERS' DATA REPORT FOR NU R PUMPS OR VALVES*
As Requi. by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Neles-Jamesbury, Inc. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Co., Two Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)
3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric*
(Name and Address)
4. Pump or Valve Ball 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)	6150	ND-286829-03G	N/A	ND286829-03 Rev. A	3	N/A	1990
(2)	6150	ND-286829-03H	N/A	ND286829-03 Rev. A	3	N/A	1990
(3)	6150	ND-286829-03J	N/A	ND286829-03 Rev. A	3	N/A	1990
(4)	6150	ND-286829-03K	N/A	ND286829-03 Rev. A	3	N/A	1990
(5)	6150	ND-286829-03L	N/A	ND286829-03 Rev. A	3	N/A	1990
(6)	6150	ND-286829-03M	N/A	ND286829-03 Rev. A	3	N/A	1990
(7)	6150	ND-286829-03N	N/A	ND286829-03 Rev. A	3	N/A	1990
(8)	6150	ND-286829-03P	N/A	ND286829-03 Rev. A	3	N/A	1990
(9)	6150	ND-286829-03Q	N/A	ND286829-03 Rev. A	3	N/A	1990
(10)							

5. Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT 11.
6. Design Conditions Seat 170 / Body 275 (Pressure) psi 150 / 100 (Temperature) °F or Valve Pressure Class 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME SA		
(1) RAN-7	351 Grade CF3M	Shell Cast Corp.	Body
(2) RAM-5	351 Grade CF3M	Shell Cast Corp.	Body
(3) RAM-12	351 Grade CF3M	Shell Cast Corp.	Body
(4) RAM-9	351 Grade CF3M	Shell Cast Corp.	Body
(5) RAN-3	351 Grade CF3M	Shell Cast Corp.	Body
(6) RAN-8	351 Grade CF3M	Shell Cast Corp.	Body
(7) RAM-14	351 Grade CF3M	Shell Cast Corp.	Body
(8) RAM-3	351 Grade CF3M	Shell Cast Corp.	Body
(9) RAM-16	351 Grade CF3M	Shell Cast Corp.	Body
(b) ~~Forgings~~ Castings	ASME SA		
(1) RAS-28	351 Grade CF3M	Shell Cast Corp.	Body Cap
(2) RAS-27	351 Grade CF3M	Shell Cast Corp.	Body Cap
(3) RAS-6	351 Grade CF3M	Shell Cast Corp.	Body Cap
(4) RAS-37	351 Grade CF3M	Shell Cast Corp.	Body Cap
(5) RAS-11	351 Grade CF3M	Shell Cast Corp.	Body Cap
(6) RAP-4	351 Grade CF3M	Shell Cast Corp.	Body Cap
(7) RAS-19	351 Grade CF3M	Shell Cast Corp.	Body Cap
(8) RAS-42	351 Grade CF3M	Shell Cast Corp.	Body Cap
(9) RAS-12	351 Grade CF3M	Shell Cast Corp.	Body Cap

(1) For manually operated valves only.

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME SA		
007	193 Gr. B8	Nova Machine	Stud (All Valves)
	ASME SA		
006	194 Gr. 8	Nova Machine	Hex Nut (All Valves)
(d) Other Parts	ASME SA		
RAB	479 TYPE 316	Neles-Jamesbury	Ball (All Valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ------ psi. ND-286829-03G,03H,03J,03K,03L,03M, 03N,03P,03Q

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974.
Addenda Winter '75 (Date). Code Case No. NONE. Date 11 Dec 90
Signed Neles-Jamesbury Inc. (N Certificate Holder) by Donald P Parker
Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires 12/21/90 (Date).

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18101
Stress analysis report (Class T only) on file at N/A

Design specifications certified by (1) Dale Sattar
PE State PA Reg. No. PE 019525E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Mass have inspected the pump, or valve, described in this Data Report on DEC 11 19 90, 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 12-11 19 90 (Inspector) Commissions MA-1301 PAWC 3388 (Nat'l Bd., State, Prov. and No.)

Factory Mutual System

FORM NPV-1 N CERTIF : HOLDERS' DATA REPORT FOR NU R PUMPS OR VALVES*

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

1. Manufactured by Neles-Jamesbury, Inc. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric*
(Name and Address)

4. Pump or Valve Ball 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)	6150	ND-286829-03R	N/A	ND286829-03 Rev.A3		N/A	1990
(2)	6150	ND-286829-03S	N/A	ND286829-03 Rev. A 3		N/A	1990
(3)	6150	ND-286829-03T	N/A	ND286829-03 Rev. A 3		N/A	1990
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT 11.

6. Design Conditions Seat 170 / Body 275 (Pressure) psi 150 / 100 (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(1) RAM-2	351 Grade CF3M	Shell Cast Corp.	Body
(2) RAM-6	351 Grade CF3M	Shell Cast Corp.	Body
(3) RAM-4	351 Grade CF3M	Shell Cast Corp.	Body
(1) RAS-10	351 Grade CF3M	Shell Cast Corp.	Cap
(2) RAR-2	351 Grade CF3M	Shell Cast Corp.	Cap
(3) RAS-22	351 Grade CF3M	Shell Cast Corp.	Cap
(b) Forgings			

(1) For manually operated valves only.

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

Mark No.	Material Spec. No.	facturer	Remarks
(c) Bolting	ASME SA		
007	193 Gr. B8	Nova Machine	Stud (All Valve_,
	ASME SA		
006	194 Gr. 8	Nova Machine	Hex Nut (All Valves
(d) Other Parts	ASME SA		
RAB	479 TYPE 316	Neles-Jamesbury	Ball (All Valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ----- psi. ND- 286829-03R,03S,03T

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974.
Addenda Winter '75 (Date). Code Case No NONE. Date 11 Dec 90
Signed Neles-Jamesbury Inc. (N Certificate Holder) by Harold P Barker
Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires 12/21/90 (Date).

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18
Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Dale Sattar
PE State PA Reg. No. PE 019525E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Mass have inspected the pump, or valve, described in this Data Report on DEC 11 19 90, 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.

Factory Mutual System

Date 12-11-90 19
(Inspector) Commissions MA-1301 PAUC 3388 (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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: June 26, 1992

Sheet 1 of 2

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

Unit: ONE

PMR# 90-3088 / WA#'S U13017, C13321, C13322 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM, 054, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No).
PRESSURE RELIEF VALVE	ANDERSON GREENWOOD	N26654	N/A	PSV-01126E	1991	REPLACEMENT	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-3302-3	1990	REPLACED	NO
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-3302-3	1991	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-3302-4	1991	REPLACEMENT	NO
LARGE PIPE SUPPORT	PP&L	N/A	N/A	HRC-3302-H10	1990	REPLACED	NO
LARGE PIPE SUPPORT	PP&L	N/A	N/A	HRC-3302-H10	1991	REPLACEMENT	NO

7. Description of Work: INSTALL A 1" PRESSURE RELIEF LINE FOR THE ESW PIPING ON THE 'E' DIESEL GENERATOR SIDE OF THE ESW ISOLATION VALVES'

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 190 psi Test Temp. AMBIENT °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

APPLICABLE CONSTRUCTION CODE FOR NEW RELIEF VALVE IS ASME SECTION III, 1986 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 S. Y. Sl al Date July 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 6-18-91 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7525 PA 2159 NI

National Board, State, Province, and Endorsements

Date July 22 19 92

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

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

Date: June 26, 1992

Sheet 2 of 2

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

Unit: ONE

PMR# 90-3088 / WA#'S U13017, C13321, C13322 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

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

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	PP&L	N/A	N/A	SP-HRC-3302-H4	1991	REPLACEMENT	NO
SMALL PIPE SUPPORT	PP&L	N/A	N/A	SP-HRC-3302-H5	1991	REPLACEMENT	NO

PAGE 2

S/O 10.1579.03
P.O. 1-25471-1

FORM NV-1 CERTIFICATE HOLDER'S DATA REPORT FOR PRESSURE OR VACUUM RELIEF VALVES*

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

1. Manufactured and certified by Anderson Greenwood & Co. 2950 Greenbriar, Stafford, TX 77477 (Name and address of NV Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two N. 9th Street, 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 18603 (Name and address)

4. Valve 81PFS408A08ALG-N3 (model no., series no.) Orifice size 1/4 (in.) Nom. inlet size 1.00 (in.) Outlet size 1.00 (in.)

5. ASME Code, Section III, Division 1: 1986 (edition) None (addenda date) 3 (class) N/A (Code Case no.)

6. Type Spring (lifting, pilot or power operated) 165 (set pressure, psig) Fixed (blowdown, psi) 70°F (normal operating temp.) 425 (hydro. test, psig, temp.) at 100 °F

7. Identification N26654 (Cert. Holder's serial no.) N/A (CRN) N06-1051 Rev. D (drawing no.) N/A (Nat'l. Bd. no.) 1991 (mo./yr. built)

8. Control ring settings N/A CBOM N06-1051-024 Rev. A

9. Pressure retaining items:

	Serial No. or Identification	Mat'l. Spec., Including Type or Grade	Tensile Strength
Body	BZ	SA351-CF8M	70
Bonnet or Yoke Sleeve	6011	SA479-316	75
Support Ring Collar	6035	SA479-316	75
Nozzle Flg. Inlt.	614TNE	SA182-F316	75
Disc Flg. Out.	614TNE	SA182-F316	75
Spring Washers Guide	29772	SA479-316	75
Adjusting Screws	N/A	N/A	N/A
Spindle	30763	SA479-316	75
Spring	N/A	N/A	N/A
Bolting	05-1007-197	SA193-B8M	75
Other Items			

10. Relieving capacity 17.5 GPM (steam or fluid, lb/hr) @ 10% (psi) overpressure as certified by the National Board 1-22-91 (date)

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Donald 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.

NV Certificate of Authorization No. N-2825 Expires 9-10-93

Date 8/29/91 Name Anderson, Greenwood & Co. (NV Certificate Holder) Signed Joseph A. Parks (authorized representative)

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

(12/86) This form (E00042) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

File: 81-119
RECORD PACKAGE
PAGE 2 OF 75

PAGE 2

Certificate Holder's Serial No. N26654

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TX and employed by Boston, MA of Boston, MA have inspected the valve described in this Data Report on [illegible], 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 8/29/91 Signed [signature] (Authorized Inspector) Commissions NB #9015 N&B TX #1056 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) (P.O. no., job no., etc.)
PMR 90-3004, WA C14023 (address)

2. Owner Pennsylvania Power and Light Co. (name)
Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of Installation Susquehanna Steam Electric Station (name)
Berwick, PA 18603 (address)

4. Unit Identification: Offgas Recombiner (boiler, pressure vessel) Name of original manufacturer Process Systems International

5. Identifying nos.: T105048-1 (mfr's. serial no.) 946 (original National Board no.) - (jurisdiction no.) 0S125 (other) 1992 (year built)

6. Description of work: Welded studs on vessel for retention of insulation blankets & RTD's. (use back, separate sheet, or sketch if necessary)

Reference: TP 072-005
Hydrostatic Pressure Test of Vessel Pressure test, if applied 455 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks:

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. N/A to use the N/A symbol expires N/A 19 N/A.

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of N/A and employed by N/A N/A of N/A 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 N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A.

Date July 16 19 92 Penna. Power & Light Co. (repair or alteration organization) Signed S.R.Slal (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on July 22 19 92 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.

Date July 22 19 92 Signed [illegible] (Authorized Inspector) Commissions NB 7525 PA 2159 NE (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) — DCP 88-3041A, WA C03926 (P.O. no., job no., etc.)

(address)

2. Owner Pennsylvania Power and Light Co. (name)

Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

Berwick, PA 18603 (address)

4. Unit identification: Heat Exch. (boiler, pressure vessel) Name of original manufacturer Struthers-Wells

5. Identifying nos.: 06-31764-1 (mfr's. serial no.) 1738 (original National Board no.) PA469333 (jurisdiction no.) Equip. I.D. 1E-201A (other) 1975 (year built)

6. Description of work: Re-tubed Heat Exchanger by Removing Existing Cu-Ni Tubes and Installing New AL-6XN Tubes. (use back, separate sheet, or sketch if necessary)

Hydro. WA=C03927 Pressure test, if applied 230 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: Unit 1 RBCCW "A"

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report confo to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of co petency issued by the state or province of N/A and employed by N/A N/A of N/A has examined the design change as described in this report and verifie that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Cod By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the wo described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injur 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 i surance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said polic

Date N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (National Board (Inst. 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 repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A

Date July 16 1992 Penna., Power & Light Co. (repair or alteration organization) Signed S.Y. Slad (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on July 22 1992 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.

Date JUL. 22 1992 Signed [signature] (Authorized Inspector) Commissions NB 7525 PA 2159 NJ (National Board (Inst. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
as required by the provisions of the National Board Inspection Code

1. Work performed by Owner (name of repair or alteration organization) — DCP 88-3041B WA C03932 (P.O. no., job no., etc.)
(address)

2. Owner Pennsylvania Power and Light Co. (name)
Two N. Ninth Street, Allentown, PA 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
Berwick, PA 18603 (address)

4. Unit identification: Heat Exch. (boiler, pressure vessel) Name of original manufacturer Struthers-Wells

5. Identifying nos.: 06-31764-2 (mfr's. serial no.) 1739 (original National Board no.) PA 469334 (jurisdiction no.) Equip. I.D. 1E-201B (other) 1975 (year built)

6. Description of work: Re-tubed Heat Exchanger by Removing Existing Cu-Ni Tubes and (use back, separate sheet, or sketch if necessary)
Installing new AL-6XN Tubes. One Tube location abandoned. New tube total = 1387.

Hydro. WA = C03933 Pressure test, if applied 230 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report:

N/A

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: Unit 1 RBCCW "B"

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229 NB-65 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. N/A to use the N/A symbol expires N/A 19 N/A

Date N/A 19 N/A N/A (name of organization) Signed N/A (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of N/A and employed by N/A N/A of N/A 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 N/A 19 N/A Signed N/A (Authorized Inspector) Commissions N/A (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 repair (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A 19 N/A

Date July 16 19 92 Penna., Power & Light Co. (repair or alteration organization) Signed S.Y. Slad (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of Penna. and employed by Arkwright Mutual Insurance Company of Waltham, MA has inspected the work described in this report on July 22 19 92 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.

Date July 22 19 92 Signed [illegible] (Authorized Inspector) Commissions NB 2525 PA 2159 NE (National Board (incl. endorsements), state, prov., and no.)

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: JUNE 26, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — PPL PMR #92-9024, WA #C23209 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: CONTAINMENT INSTRUMENT GAS SYSTEM 125 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 80 thru w/80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-HCC-138-H28	1982	Replaced	no
PIPE SUPPORT	PP&L	N/A	N/A	SP-HCC-138-H28	1992	Replacement	no

7. Description of Work: Pipe support temporarily removed and reinstalled as per IDCN #1

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

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 [illegible] Date July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 4-11-92 to 4-17-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[illegible] Commissions NB 7525 PA 2159 NI

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

Date July 22 1992

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 134K
as required by the provisions of the National Board Inspection Code

1. Work performed by Pennsylvania Power and Light (name of repair or alteration organization) PMR# 90-3064A/ WA# C13640 (P.O. no., job no., etc.)
Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner Pennsylvania Power and Light (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: CONDENSER (boiler, pressure vessel) Name of original manufacturer

5. Identifying nos.: 700205 (mfr's serial no.) 129861 (original National Board no.) N/A (jurisdiction no.) 1K206B (other) 1976 (year built)

6. Description of work: MODIFY EXISTING 1/4" NPT CONDENSER WATER BOX VENT CONNECTION TO A 3/4" NPT (use back, separate sheet, or sketch if necessary)
VENT CONNECTION TO ALLEVIATE CLOGGING PROBLEMS WITH ORIGINAL CONFIGURATION.

Pressure test, if applied N/A psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report
NONE

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: INSERVICE LEAK TEST PERFORMED BY WA# C13644 FOLLOWING RETURN TO SERVICE, WITH NO LEAKAGE OBSERVED.

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. N/A to use the N/A symbol expires N/A, 19__

Date _____, 19__ N/A (name of organization) Signed N/A (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 N/A and employed by N/A N/A of N/A 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 N/A (Authorized Inspector) Commissions N/A (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A, 19__

Date July 16, 1992 PENNSYLVANIA POWER & LIGHT CO (name of alteration organization) Signed [signature] (authorized representative)

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 ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASS. has inspected the work described in this report on July 22, 1992 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code.

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.

Date July 22, 1992 Signed [signature] (Authorized Inspector) Commissions NB 7525 PA 2159 NI (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED [X] REPAIR OR [ ] ALTERATION 134K
as required by the provisions of the National Board Inspection Code

1. Work performed by Pennsylvania Power and Light (name of repair or alteration organization) PMR# 90-3058A/ WA# C13564 (P.O. no., job no., etc.)
Two North Ninth Street, Allentown, Pa. 18101 (address)

2. Owner Pennsylvania Power and Light (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: CONDENSER (boiler, pressure vessel) Name of original manufacturer

5. Identifying nos.: 700202 (mfr's serial no.) 129736 (original National Board no.) N/A (jurisdiction no.) 1K206A (other) 1976 (year built)

6. Description of work: MODIFY EXISTING 1/4" NPT CONDENSER WATER BOX VENT CONNECTION TO A 3/4" NPT (use back, seperate sheet, or sketch if necessary)
VENT CONNECTION TO ALLEVIATE CLOGGING PROBLEMS WITH ORIGINAL CONFIGURATION.

Pressure test, if applied N/A psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly indentified and signed by Authorized Inspectors for the following items of this report
NONE

(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: INSERVICE LEAK TEST PERFORMED BY WA# C13635 FOLLOWING RETURN TO SERVICE, WITH NO LEAKAGE OBSERVED.

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. N/A to use the N/A symbol expires N/A, 19____

Date _____, 19____ N/A (name of organization) Signed N/A (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 N/A and employed by N/A N/A of N/A 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 N/A (Authorized Inspector) Commissions N/A (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. N/A to use the N/A symbol expires N/A, 19____

Date July 16, 1992 PENNSYLVANIA POWER & LIGHT CO (name of alteration organization) Signed [signature] (authorized representative)

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 ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASS. has inspected the work described in this report on JULY 22, 1992 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.

Date July 22, 1992 Signed [signature] (Authorized Inspector) Commissions NB 7525 PA 2159 NI (National Board (incl. endorsements), state, prov., and no.)

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

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

Date: June 15, 1992

Sheet 1 of 6

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231A SUPPLY	87	REPLACED	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231A SUPPLY	90	REPLACEMENT	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231C SUPPLY	87	REPLACED	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231C SUPPLY	90	REPLACEMENT	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231B RETURN	87	REPLACED	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231B RETURN	90	REPLACEMENT	NO

7. Description of Work: Replaced coils & ESW flex hoses, and modified ESW piping @ Core Spray Room Coolers

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [X] <—COILS(125@57°F/135@55°F)
Other [ ] Pressure 194 / 195 psi Test Temp. 74 / 76 °F (LOOP "A" / LOOP "B")

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

DCP's 88-3051A & B, 89-3027, 89-3028 WA's C13576 C13577 C13707 C13708 C13709 C13710

Appl. codes: Hoses = ANSI B31.1 1973 Coils = ASME VIII 1986 with Code Case 1997-2 Piping =

ASME III 1971 W72 with Code Case N316 Valves = ASME III 1974 (no addenda)

WA's (cont'd.): C13572 C13573 C13578 C13579

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 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 9-10-91 to 3-23-92, 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 PA 2159 NI

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

Date July 22 1992

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

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

Date: June 15, 1992

Sheet 2 of 6

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231D SUPPLY	87	REPLACED	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-231D SUPPLY	90	REPLACEMENT	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231A BOTTOM	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231A TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900633	N/A	1E-231A BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900632	N/A	1E-231A TOP	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231C BOTTOM	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231C TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900635	N/A	1E-231C BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900634	N/A	1E-231C TOP	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231B BOTTOM	74	REPLACED	NO

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

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

Date: June 15, 1992

Sheet 3 of 6

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231B TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900637	N/A	1E-231B BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900636	N/A	1E-231B TOP	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231D BOTTOM	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-231D TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900639	N/A	1E-231D BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900638	N/A	1E-231D TOP	90	REPLACEMENT	YES
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-122-H4	82	REPLACED (DELETED)	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-126-H2013	82	REPLACED (DELETED)	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HRC-126-H2514	82	REPLACED (DELETED)	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-121-1	82	REPLACED	YES

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

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

Date: June 15, 1992

Sheet 4 of 6

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-121-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-121-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-121-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-122-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-122-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-122-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-122-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-125-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-125-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-125-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-125-2	92	REPLACEMENT	NO

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

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

Date: June 15, 1992

Sheet 5 of 6

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-126-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-126-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-126-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-126-2	92	REPLACEMENT	NO
1/2" GLOBE VALVE	YARWAY	A0083	N/A	1RV-FP-11158A	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	A0082	N/A	2RV-FP-11158A	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01A	N/A	1RV-FP-11158A	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01B	N/A	2RV-FP-11158A	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9958	N/A	1RV-FP-11158B	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	9959	N/A	2RV-FP-11158B	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01N	N/A	1RV-FP-11158B	92	REPLACEMENT	YES

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

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

Date: June 15, 1992

Sheet 6 of 6

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" BALL VALVE	NELES-JAMESBURY	NC-334123-01P	N/A	2RV-FP-11158B	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9938	N/A	1RV-FP-11158C	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	9964	N/A	2RV-FP-11158C	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01C	N/A	1RV-FP-11158C	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01D	N/A	2RV-FP-11158C	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9934	N/A	1RV-FP-11158D	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	9945	N/A	2RV-FP-11158D	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01R	N/A	1RV-FP-11158D	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01S	N/A	2RV-FP-11158D	92	REPLACEMENT	YES

1E-231A BOT.

NDI-QA-2.4.7
DSR # 45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz or vert, total) | 900633 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No.) | 1990 (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 1986 (Year)

-- (Addenda (date)) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-7.5" (Diam. I.D. (ft & in.)) | 1'-7 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Time) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No. Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec. No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld, bar, etc.) If bar, give dimensions _____ _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec. No., Gr.)) | 7.5" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

_____ (Floating Matl (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach.)

13. Tubes: SB-676, Class 2 (Matl (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Time) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report _____ (Name of part, item number, mfg's name and identifying stamp)

TR-2893 (1) Mark: BFCO Item#34 , PO# 8-43433-1, Item 5, DCP# 88-3051A, For CS Pump Room 120 PC/Adjustax, Coil Tag No. 1E231A, Unit Cooler 1V211A, Furnished on 89326794 (74S-4885)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on June 21, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PANC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any person injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board and endorsements, State, Prov. and No.)

1E-231A TOP

NOI-QA-247
DSR #45.

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz or vert., tank) | 900632 (Mfg's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No.) | 1990 (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 1986 (Year)

-- (Addenda dates) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-7.5" (Diam I.D. (ft & in.)) | 1'-7 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp (°F))

-- (Time) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads. (a) Matl. -- (Spec No. Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl., Spec No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No., Gr.)) | 7.5". (Diam (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl (Spec No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec No., Gr.)) | .625" (OD (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp (°F))

_____ (Time) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

50

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2892 (1) Mark: BFCO Item# 33, PO# 8-43433-1, Item 5, DCP# 88-3051A, For CS Pump Roor 120 PC/Adjustax, Coil Tag No. 1E231A, Unit Cooler 1V211A, Furnished on 89326793 (74S-4885)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 20, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, HAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov. and No.)

1E-231C BOT.

NOI-QA-247 C
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz. or vert., tank) | 900635 (Mfgr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l. Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-7.5" (Diam. I.D. (ft & in.)) | 1'-7 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl. Spec. No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 7.5" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No	Diam. or Size	Type	Mat.	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfr's name and identifying stamp)

TR-2895 (1) Mark: BFCO Item# 36, PO# 8-43433-1, Item 5, DCP# 88- 3051A For CS Pump Roc 120 PC/Adjustax, Coil Tag No. 1E231C, Unit Cooler 1V211C, Furnished on 89326796 (74S-4885)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 20, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/28/90 Signed [signature] (Authorized Inspector) Commissions VA 682 PAWC03567 (Nat'l Board, State Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. ____ expires ____, 19____.

Date ____ Co. name ____ (Manufacturer that certified and constructed field assembly) Signed ____ (By) ____ (Manufacturer)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ____ and employed by ____ of ____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items ____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of ____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date ____ Signed ____ (Authorized Inspector) Commissions ____ (Nat'l Board (and endorsements), State, Prov. and No.)

1E-231C TOP

NDI-QA-247
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger | 900634 | -- | BM-R-15,N-R-4 | -- | 1990
(Horiz or vert, tank) | (Mfgr's serial No.) | (CRN) | (Drawing) | (Nat'l Bd No.) | (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The design construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special services per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell SA-240, T-316L (Matl. (Spec. No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-7.5" (Diam. I.D. (ft. & in.)) | 1'-7 1/2" (Length (Overall) (ft. & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No. Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl., Spec. No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edges & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi.
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 7.5" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No. Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft. & in.)) | _____ (Length (Overall) (ft. & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi.
Hydro., pneu., or comb. test press. _____ psi.

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2894 (1) Mark: BFCO Item# 35, PO# 8-43433-1, Item 5, DCP# 88-3051A, For CS Pump Roo 120 PC/Adjustax, Coil Tag No. 1E231C, Unit Cooler 1V211C Furnished on 89326795 (74S-4885) .

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. 2916 expires December 9 19 92

Date JUNE 29 1990 Co. name Aerofin Corporation (Manufacturer) Signed [illegible] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 18, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/28/90 Signed [illegible] (Authorized Inspector) Commissions VA 682, PAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov. and No.)

IE-231B BOT:

NDI-QA-247 α
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger | 900637 | -- | BM-R-15,N-R-4 | -- | 1990
(Horiz or vert tank) | (Mfr's serial No.) | (CRN) | (Drawing) | (Nat'l Bd No.) | (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986 (Year)

-- (Addenda (date)) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell SA-240, T-316L (Matl (Spec No Grade)) | 1.5" (Nom Thk (in)) | -- (Corr Allow (in)) | 0'-7.5" (Diam I.D (ft & in)) | 1'-7 1/2" (Length (Overall) (ft & in))

7. Seams: -- (Long (Dbl, Sgl)) | -- (R.T. (Spot or Full)) | -- (Eff (%)) | -- (H.T. Temp (°F))

-- (Time) | -- (Girth (Dbl, Sgl)) | -- (R.T. (Spot, Partial, or Full)) | (No of Courses)

8. Heads (a) Matl. -- (Spec No Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl, Spec No, Gr Size No)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as apex & weld, bar, etc) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi.
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No. Gr.)) | 7.5" (Diam (in) (Subject to pressure)) | .75" (Nom. Thk (in)) | -- (Corr. Allow. (in)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl (Spec No. Gr.)) | _____ (Diam. (in)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow (in)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec No. Gr.)) | .625" (O.D (in)) | .049" (Nom Thk (in or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec No Grade)) | _____ (Nom Thk (in)) | _____ (Corr Allow (in)) | _____ (Diam I.D (ft & in)) | _____ (Length (Overall) (ft & in))

15. Seams: _____ (Long (Dbl, Sgl)) | _____ (R.T. (Spot or Full)) | _____ (Eff (%)) | _____ (H.T. Temp (°F))

_____ (Time) | _____ (Girth (Dbl, Sgl)) | _____ (R.T. (Spot, Partial or Full)) | _____ (No of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										

If removable, bolts used (describe other fastenings) _____ (Matl, Spec No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19 Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20 Remarks. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2897 (1) Mark: BFCO Item# 38 PO# 8-43433-1, Item 5 DCP# 88-3051B For CS Pump Room 120 PC/Adjustax, Coil Tag No. 1E231B, Unit Cooler 1V211B, Furnished on 89326798 (74S-4885)

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. 2916 expires December 9, 19 92.

Date 7-11-90 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Inspector's title)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on July-11-, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 7-12-90 Signed [signature] (Authorized Inspector) Commissions VA 682 PAWC33567 (Nat'l Bd. & State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board, State, Prov. and No.)

1E-231B Top

NDI-QA-2.4.7 [
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger | 900636 | -- | BM-R-15,N-R-4 | -- | 1990
(Horiz or vert, tank) | (Mfg's serial No.) | (CRN) | (Drawing) | (Nat'l Bd No.) | (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl. (Spec. No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-7.5" (Diam. I.D. (ft. & in.)) | 1'-7 1/2" (Length (Overall) (ft. & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Time) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec. No., Gr., Size, No.)

9. Type of Jacket ____ Proof Test ____

10. Jacket Closure ____ (Describe as ogee & weld, bar, etc.) If bar, give dimensions ____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 7.5" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

(Floating Matl. (Spec. No., Gr.)) | (Diam. (in.)) | (Nom. Thk. (in.)) | (Corr. Allow. (in.)) | (Attach.)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: ____ (Matl. (Spec. No., Grade)) | ____ (Nom. Thk. (in.)) | ____ (Corr. Allow. (in.)) | ____ (Diam. I.D. (ft. & in.)) | ____ (Length (Overall) (ft. & in.))

15. Seams: ____ (Long. (Dbl., Sngl.)) | ____ (R.T. (Spot or Full)) | ____ (Eff. (%)) | ____ (H.T. Temp. (°F))

____ (Time) | ____ (Girth (Dbl., Sngl.)) | ____ (R.T. (Spot, Partial, or Full)) | ____ (No. of Courses)

16. Heads: (a) Matl. ____ (Spec. No., Grade) (b) Matl. ____ (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)

If removable, bolts used (describe other fastenings) ____ (Matl., Spec. No., Gr., Size, No.)

17. MAWP ____ psi at max. temp. ____ °F. Min. design metal temp. ____ °F at ____ psi
Hydro., pneu., or comb. test press. ____ psi.

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfr's name and identifying stamp)

TR-2896 (1) Mark: BFCO Item# 37, PO# 8-43433-1, Item 5 DCP# 88 3051B For CS Pump Room 120 PC/Adjustax, Coil Tag No. 1E231B, Unit Cooler 1V211B, Furnished on 8932697 (74S-4885)

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. 2916 expires December 9 19 92

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 21, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682 NWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board, State, Prov. and No.)

NOI-QA-2.4.7
DSR #45

1E-231D BOT.

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz or vert, tank) | 900639 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special services per UG 120(d))

Items 6-11 incl to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No Grade)) | 1.5" (Nom Thk (in.)) | -- (Corr Allow (in.)) | 0'-7.5" (Diam I.D. (ft & in.)) | 1'-7 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl., Sgl.)) | -- (R.T. (Spot or Full)) | -- (Eff (%)) | -- (H.T. Temp. (°F))

-- (Trans) | -- (Girth (Dbl., Sgl.)) | -- (R.T. (Spot, Partial, or Full)) | No. of Courses

8. Heads: (a) Matl. -- (Spec No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl Spec No., Gr. Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as egge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi

Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No., Gr.)) | 7.5" (Diam (in.) (Subject to pressure)) | .75" (Nom Thk (in.)) | -- (Corr Allow (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr Allow (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or 'U'))

Items 14-17 incl to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec No., Grade)) | _____ (Nom Thk. (in.)) | _____ (Corr. Allow (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl., Sgl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff (%)) | _____ (H.T. Temp. (°F))

_____ (Trans) | _____ (Girth (Dbl., Sgl.)) | _____ (R.T. (Spot, Partial or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl. Spec No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi

Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfr's name and identifying stamp)

TR-2899 (1) Mark: BFCO Item# 40, PO# 8-43433-1, Item 5, DCP# 88-3051B, For CS Pump Room 120 PC/Adjustax, Coil Tag No. 1E231D, Unit Cooler 1V211D Furnished on 89326800 (74S-4885)

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. 2916 expires December 9, 19 92.

Date JULY 3, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 29, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 7/3/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC03547 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (and endorsements), State, Prov. and No.)

NDI-QA-247
DSR #45

1E-231D TOP

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1 Manufactured and certified by: Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for: Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3 Location of Installation: Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type: Heat Exchanger (Horiz or vert, tank) | 900638 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6 Shell: SA-240, T-316L (Matl (Spec No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-7.5" (Diam I.D. (ft & in.)) | 1'-7 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff (%)) | -- (H.T. Temp (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8 Heads: (a) Matl. -- (Spec No. Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec. No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as egge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11 MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi

Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12 Tubesheets: SB-688 (Stationary Matl (Spec. No., Gr.)) | 7.5" (Diam (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

(Floating Matl (Spec. No., Gr.)) | (Diam. (in.)) | (Nom. Thk. (in.)) | (Corr. Allow. (in.)) | (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 50 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi

Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2898 (1) Mark: BFCO Item# 39 PO# 8-43433-1, Item 5 DCP# 88-3051B, For CS Pump Room 120 PC/Adjustax, Coil Tag No. 1E231D, Unit Cooler 1V211D, Furnished on 89326799 (74S-4885)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 18, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/28/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov., and No.)

FORM NPV-1 N CERTIFICAT' 'OLDERS' DATA REPORT FOR NUCLE' 'UMPS OR VALVES*
As Required L, ne Provisions of the ASME Code, Section..., Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01A	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01B	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01C	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01D	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01E	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01F	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01G	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01H	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -5	351 Gr. CF8M	Southern Tool	Body
(2) RHD -48	351 Gr. CF8M	Southern Tool	Body
(3) RHD -32	351 Gr. CF8M	Southern Tool	Body
(4) RHD -17	351 Gr. CF8M	Southern Tool	Body
(5) RHD -55	351 Gr. CF8M	Southern Tool	Body
(6) RHD -38	351 Gr. CF8M	Southern Tool	Body
(7) RHD -53	351 Gr. CF8M	Southern Tool	Body
(8) RHD -4	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -9 & -13	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -6 & -79	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -33 & -36	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -61 & -70	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -112 & -155	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -1 & -166	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -14 & -73	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -42 & -81	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (all valve
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap S
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01A, 01B, 01C, 01D, 01E, 01F, 01G, 01H

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974, Addenda NONE (Date), Code Case No. NONE, Date 7-6-92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7 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 2-7 19 92 Factory Mutual Systems

[signature] (Inspector) Commissions MA # 1287 PAWC # 2757 (Nat'l Bd., State, Prov. and No.)

PP&L DOC NO. 45

FORM NPV-1 N CERTIFICA' .IOLDERS' DATA REPORT FOR NUCLE PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section ..., Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)
3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)
4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01J	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01K	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01L	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01M	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01N	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01P	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01R	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01S	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -30	351 Gr. CF8M	Southern Tool	Body
(2) RHD -19	351 Gr. CF8M	Southern Tool	Body
(3) RHD -15	351 Gr. CF8M	Southern Tool	Body
(4) RHD -61	351 Gr. CF8M	Southern Tool	Body
(5) RHD -74	351 Gr. CF8M	Southern Tool	Body
(6) RHD -57	351 Gr. CF8M	Southern Tool	Body
(7) RHD -69	351 Gr. CF8M	Southern Tool	Body
(8) RHD -73	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -17 & -41	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -12 & -105	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -20 & -119	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -5 & -23	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -34 & -82	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -16 & -83	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -10 & -31	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -11 & -15	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

(8/83) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (all
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap S
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01J, 01K, 01L, 01M, 01N, 01P, 01R, 01S

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974 Addenda NONE (Date), Code Case No. NONE. Date 7 Feb 92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7, 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 2-7, 19 92

[signature] (Inspector)

Commissions Factory Mutual Systems MA #1287 FAWC #2757 (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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: June 15, 1992

Sheet 1 of 3

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

Unit: ONE

DCP'S 89-3027 & 89-3028 WA'S C13578 C13579 WA'S C13574 C13580 C13572 C13573
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: HPCI PUMP ROOM COOLING SYSTEM 134E III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-HRC-118-H4002	82	REPLACED (DELETED)	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-117-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-117-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-118-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-118-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-119-3	86	REPLACED	YES

7. Description of Work: MODIFIED ESW PIPING AT HPCI PUMP ROOM COOLERS

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 194 / 195 psi Test Temp. 74 / 66 °F (LOOP "A" / LOOP "B")

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

APPL. CODES: Piping = ASME III 1971 thru W'72 addenda with Code Case N316

Valves = ASME III 1974 (no addenda)

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components descnbed in this Owner's Report during the period 10-23-92 to 4-5-92, 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 PA 2159 NI

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

Date July 22 19 92

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

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

Date: June 15, 1992

Sheet 2 of 3

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

Unit: ONE

DCP'S 89-3027 & 89-3028 WA'S C13578 C13579 WA'S C13574 C13580 C13572 C13573
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: HPCI PUMP ROOM COOLING SYSTEM 134E III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-119-3	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-120-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-120-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-120-3	86	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-120-3	92	REPLACEMENT	NO
2" BALL VALVE (boundary change)	NELES-JAMESBURY	ND-328996-01N	N/A	1-11-117	92	REPLACEMENT (from 154A III)	YES
2" GLOBE VALVE (boundary change)	VOGT	39-215095	N/A	1-11-150	85	REPLACED (to 154A III)	YES
1/2" GLOBE VALVE	YARWAY	9935	N/A	1RV-FP-11174A	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01E	N/A	1RV-FP-11174A	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9947	N/A	2RV-FP-11174A	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01F	N/A	2RV-FP-11174A	92	REPLACEMENT	YES

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

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

Date: June 15, 1992

Sheet 3 of 3

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

Unit: ONE

DCP'S 89-3027 & 89-3028 WA'S C13578 C13579 WA'S C13574 C13580 C13572 C13573
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: HPCI PUMP ROOM COOLING SYSTEM 134E III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	9932	N/A	1RV-FP-11174B	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01T	N/A	1RV-FP-11174B	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9930	N/A	2RV-FP-11174B	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01U	N/A	2RV-FP-11174B	92	REPLACEMENT	YES

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

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric*
(Name and Address)

4. Pump or Valve Ball 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)	R21	ND-328996-01J	N/A	ND-328996-01Rev. D	3	N/A	1992
(2)	R21	ND-328996-01K	N/A	ND-328996-01Rev. D	3	N/A	1992
(3)	R21	ND-328996-01M	N/A	ND-328996-01Rev. D	3	N/A	1992
(4)	R21	ND-328996-01N	N/A	ND-328996-01Rev. D	3	N/A	1992
(5)							
(6)	R21	ND-328996-01P	N/A	ND-328996-01Rev. D	3	N/A	1992
(7)	R21	ND-328996-01R	N/A	ND-328996-01Rev. D	3	N/A	1992
(8)	R21	ND-328996-01S	N/A	ND-328996-01Rev. D	3	N/A	1992
(9)							
(10)							

5. Emergency Service Water System
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. Rtl

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 198° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

	Mark No.	Material Spec. No.	Manufacturer	Remarks
	(a) Castings	ASME-SA		
(1)	RHV-1	351 Gr. CF8M	Pennsylvania Steel	Body
(2)	RHV-6	351 Gr. CF8M	Pennsylvania Steel	Body
(3)	RHW-5	351 Gr. CF8M	Pennsylvania Steel	Body
(4)	RHT-1	351 Gr. CF8M	Pennsylvania Steel	Body
(5)				
(6)	RHV-2	351 Gr. CF8M	Pennsylvania Steel	Body
(7)	RHW-6	351 Gr. CF8M	Pennsylvania Steel	Body
(8)	RHX-3	351 Gr. CF8M	Pennsylvania Steel	Body
	(b) Forgings	ASME-SA		
(1)	RKA-14	351 Gr. CF8M	Southern Tool	Segment
(2)	RKA-21	351 Gr. CF8M	Southern Tool	Segment
(3)	RKA-29	351 Gr. CF8M	Southern Tool	Segment
(4)	RKA-1	351 Gr. CF8M	Southern Tool	Segment
(5)				
	RKA-15	351 Gr. CF8M	Southern Tool	Segment
(7)	RKA-31	351 Gr. CF8M	Southern Tool	Segment
(8)	RKA-27	351 Gr. CF8M	Southern Tool	Segment

(1) For manually operated valves only.

No. 015-0351
RECORD PACKAGE PAGE 10 OF 93

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

FORM NPV-1 (Back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
	(c) Bolting	ASME-SA		
	8078476	193 Grade B7	Nova Machine	Hex Hd. Cap Screw (All Valves)
	(d) Other Parts	ASME-SA		
(1)	RKK-8	240 Type 316	Jessop Steel Co.	End Plate
(2)	RKK-12	240 Type 316	Jessop Steel Co.	End Plate
(3)	RKK-16	240 Type 316	Jessop Steel Co.	End Plate
(4)	RKK-1	240 Type 316	Jessop Steel Co.	End Plate
(5)				
(6)	RKK-9	240 Type 316	Jessop Steel Co.	End Plate
(7)	RKK-18	240 Type 316	Jessop Steel Co.	End Plate
(8)	RKK-14	240 Type 316	Jessop Steel Co.	End Plate

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. ND-328996-01J,01K,01M,01N, 01P,01R, 01S

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 None (Date). Code Case No. None Date 2-26-93

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald P. Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (Stamp) symbol expires Oct.27,1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 08101

Stress analysis report (Class 1 only) on file at

Design specifications certified by (1) Frank J. Czysz
PE State PA Reg. No. PE-0250-49E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-26 19 93, 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 2-27 19 93

(Inspector)

No. 93-0057 RECORD PACKAGE PAGE 93 MM-1301

Factory Mutual Systems (Insp. Co., Street, Town, and No.)

FORM NPV-1 N CERTIFICAT' 'OLDERS' DATA REPORT FOR NUCLE' 'UMPS OR VALVES*
As Required L ne Provisions of the ASME Code, Section ... Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01A	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01B	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01C	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01D	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01E	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01F	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01G	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01H	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -5	351 Gr. CF8M	Southern Tool	Body
(2) RHD -48	351 Gr. CF8M	Southern Tool	Body
(3) RHD -32	351 Gr. CF8M	Southern Tool	Body
(4) RHD -17	351 Gr. CF8M	Southern Tool	Body
(5) RHD -55	351 Gr. CF8M	Southern Tool	Body
(6) RHD -38	351 Gr. CF8M	Southern Tool	Body
(7) RHD -53	351 Gr. CF8M	Southern Tool	Body
(8) RHD -4	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -9 & -13	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -6 & -79	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -33 & -36	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -61 & -70	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -112 & -155	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -1 & -166	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -14 & -73	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -42 & -81	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (all valve
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap *
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01A, 01B, 01C, 01D, 01E, 01F, 01G, 01H

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974, Addenda NONE (Date), Code Case No. NONE, Date 7-5-92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald O. Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7, 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 2-7, 19 92 Factory Mutual Systems

(Inspector) Commissions Ma # 1287 PAWC # 2757 (Nat'l Bd., State, Prov. and No.)

P. 76 DOC NO. 45

FORM NPV-1 N CERTIFICAT OLDERS' DATA REPORT FOR NUCLEA' JMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section N, Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01 T	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01 U	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01 W	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01 X	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01 Y	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01 Z	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01 AA	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01 AB	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -36	351 Gr. CF8M	Southern Tool	Body
(2) RHD -76	351 Gr. CF8M	Southern Tool	Body
(3) RHD -35	351 Gr. CF8M	Southern Tool	Body
(4) RHD -62	351 Gr. CF8M	Southern Tool	Body
(5) RHD -28	351 Gr. CF8M	Southern Tool	Body
(6) RHD -68	351 Gr. CF8M	Southern Tool	Body
(7) RHD -44	351 Gr. CF8M	Southern Tool	Body
(8) RHD -24	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -8 & -35	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -25 & -26	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -4 & -32	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -7 & -28	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -38 & -39	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -40 & -56	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -3 & -104	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -18 & -37	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (a[illegible])
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01T, 01U, 01W, 01X, 01Y, 01Z, 01AA, 01AB

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974 Addenda NONE (Date), Code Case No. NONE, Date 7 Feb. 92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald P Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (Mt) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7 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 2-7 19 92

[illegible] (Inspector)

Commissions Ma #1287 PALC #2757 (Nat'l Bd., State, Prov. and No.)

PPSC Doc NO. 45

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: May 13, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP's 88-3047 A & B / WA's C13472 & C13440 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Building H & V System — System 134E — Class III

5. (a) Applicable Construction: See Remarks 19 ____ Edition, ____ Addenda, ____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Room Cooler Flex Hose	Anamet	N/A	N/A	1E229A Supply Hose	'87	Replaced	No
Room Cooler Flex Hose	Anamet	N/A	N/A	1E229A Supply Hose	'90	Replacement	No
Room Cooler Flex Hose	Anamet	N/A	N/A	1E229B Supply Hose	'87	Replaced	No
Room Cooler Flex Hose	Anamet	N/A	N/A	1E229B Supply Hose	'90	Replacement	No
HPCI Room Cooler Coil	Aerofin	N/A	N/A	1E229A	'74	Replaced	No
HPCI Room Cooler Coil	Aerofin	900612	N/A	1E229A	'90	Replacement	Yes

7. Description of Work: Replace the cooling coils and the ESW Supply flex hoses at HPCI Room Coolers 1V-209 A & B

8. Tests Conducted: [ ] Hydrostatic [ ] Pneumatic [X] Nominal Operating Pressure [ ] Other

Pressure 120 psi — Test Temp. 73 (A) / 60 (B) °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

Applicable Construction Code: ASME VIII 1986 Edition , Code Case 1997-2 (Coils)

ANSI B31.1 1973 (Hoses)

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 S V Mal Date July 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 10-23-92 to 4-5-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Commissions NB 7525 PA 2159 NI
National Board, State, Province, and

DATE JULY 22 1992

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: May 13, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — DCP's 88-3047 A & B / WA's C13472 & C13440 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Building H & V System — System 134E — Class III

5. (a) Applicable Construction: See Remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HPCI Room Cooler Coil	Aerofin	N/A	N/A	1E229B	'74	Replaced	No
HPCI Room Cooler Coil	Aerofin	900613	N/A	1E229B	'90	Replacement	Yes

NOI-QA-2.4.7
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz or vert, tank) | 900612 (Mfr's serial No) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No) | 1990 (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 1986 (Year)

-- (Addenda (date)) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell SA-240, T-316L (Matl (Spec No Grade)) | 1.5" (Nom Thk (in.)) | -- (Corr Allow (in.)) | 0'-7.5" (Diam I.D. (ft & in.)) | 2'-9 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl, Sngl)) | -- (R.T. (Spot or Full)) | -- (Eff (%)) | -- (H.T. Temp (°F))

-- (Type) | -- (Circ (Dbl, Sngl)) | -- (R.T. (Spot, Partial, or Full)) | (No of Courses)

8. Heads: (a) Matl. -- (Spec No, Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl, Spec No, Gr, Size No)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld, bar, etc) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No, Gr)) | 7.5" (Diam (in) (Subject to pressure)) | .75" (Nom Thk (in.)) | -- (Corr Allow (in)) | Bolted (Attach (Welded Bolted))

_____ (Floating Matl (Spec No, Gr.)) | _____ (Diam. (in)) | _____ (Nom Thk (in)) | _____ (Corr Allow (in)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec No, Gr)) | .625" (O D (in)) | .049" (Nom. Thk (in or Gauge)) | 90 (Number) | Straight (Type (Straight or U))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl, Sngl)) | _____ (R.T. (Spot or Full)) | _____ (Eff (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Circ (Dbl, Sngl)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No of Courses)

16. Heads: (a) Matl. _____ (Spec No, Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl, Spec No, Gr, Size No)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87)

This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfr's name and identifying stamp)

TR-2872 (') Mark: BECO Item #13, PO # 88-43433-1, For HPCI Pump Room, 75 PC/Adjustax, Coil Tag N . 1E229A, Unit Cooler 1V209A, Furnished on 89326773(74S-4883), Item #3
DCP No. 88-2047

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. 2916 expires December 9 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 18, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (and endorsements), State, Prov., and No.)

NDI-QA-247 C
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger | 900613 | -- | BM-R-15,N-R-4 | -- | 1990
(Horiz or vert, tank) | (Mfr's serial No.) | (CRN) | (Drawing) | (Nat'l Bd No.) | (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986 (Year)

-- | 1997-2 | --
Addenda (date) | Code Case No. | Special service per UG 120(c)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L | 1.5" | -- | 0'-7.5" | 2'-9 1/2"
Matl (Spec No. Grade) | Nom. Thk. (in.) | Corr. Allow. (in.) | Diam. I.D. (ft & in.) | Length (Overall) (ft & in.)

7. Seams: -- | -- | -- | --
Long. (Del., Seg.) | R.T. (Spot or Full) | Eff. (%) | H.T. Temp. (°F)

-- | -- | --
Time | Girth (Del., Seg.) | R.T. (Spot, Partial, or Full) | No. of Courses

8. Heads: (a) Matl. -- (Spec No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 | 7.5" | .75" | -- | Bolted
Stationary Matl (Spec No., Gr.) | Diam. (in.) (Subject to pressure) | Nom. Thk. (in.) | Corr. Allow. (in.) | Attach (Welded, Bolted)

Floating Matl (Spec No., Gr.) | Diam. (in.) | Nom. Thk. (in.) | Corr. Allow. (in.) | Attach

13. Tubes: SB-676, Class 2 | .625" | .049" | 90 | Straight
Matl (Spec No., Gr.) | O.D. (in.) | Nom. Thk. (in. or Gauge) | Number | Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____
Matl (Spec No., Grade) | Nom. Thk. (in.) | Corr. Allow. (in.) | Diam. I.D. (ft & in.) | Length (Overall) (ft & in.)

15. Seams: _____
Long. (Del., Seg.) | R.T. (Spot or Full) | Eff. (%) | H.T. Temp. (°F)

_____
Time | Girth (Del., Seg.) | R.T. (Spot, Partial, or Full) | No. of Courses

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)

If removable, bolts used (describe other fastenings) _____ (Matl., Spec No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi.
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No	Diam or Size	Type	Mat'l	Nom. Thk	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2873(1) Mark: BECO Item #14, PO # 88-43433-1, For HPCI Pump Room, 75 PC/Adjusrax, Coil Tag No. 1E229B, Unit Cooler 1V209B, Furnished on 89326774(74S-4883), Item #3 DCP No. 88-3047

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [illegible] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 20, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [illegible] (Authorized Inspector) Commissions VA 682 PAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (and endorsements), State, Prov. and No.)

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

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

Date: July 20, 1992

Sheet 1 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RCIC PUMP ROOM COOLING System 134F Class III

5. (a) Applicable Construction Code: See Remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Room Cooler Flex Hoses (2)	Anamet	N/A	N/A	1E-228A (supply and return)	1987	replaced	No
Room Cooler Flex Hoses (2)	Anamet	N/A	N/A	1E-228A (supply and return)	1990	replacement	No
Room Cooler Flex Hoses (2)	Anamet	N/A	N/A	1E-228B (supply and return)	1987	replaced	No
Room Cooler Flex Hoses (2)	Anamet	N/A	N/A	1E-228B (supply and return)	1990	replacement	No
Room Cooler Coil	Aerofin	N/A	N/A	1E-228A	1974	replaced	No
Room Cooler Coil	Aerofin	900608	N/A	1E-228A	1990	replacement	Yes

7. Description of Work: Replaced coils & flex hoses, and modified ESW piping at RCIC Pump Room Coolers.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [X] <—Coils (120 psi @ 60°F)
Other [ ] Pressure 194 / 195 psi Test Temp. 74 / 66 °F (LOOP "A" / LOOP "B")

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 Construction Codes are as follows: flex hoses - ANSI B31.1 1973 Edition No Addenda,
Applicable Manufacturer's Data Reports to be attached

cooling coils - ASME VIII 1986 Edition No Addenda with Code Case 1997-2, piping - ASME III 1971 W72

with Code Case N316. valves - ASME III 1974 (no addenda). Code data reports are attached.

DCP's = 88-3045A & B, 89-3027, 89-3028

WA'S = C13381, C13382, C13575, C13582, C13572, C13573, C13578, C13579

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 21, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components descnbed in this Owner's Report during the period 6-5-91 to 3-23-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures descnbed 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 PA 2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 19 92

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: June 15, 1992

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

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RCIC PUMP ROOM COOLING System 134F Class III

5. (a) Applicable Construction Code: See Remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Room Cooler Coil	Aerofin	N/A	N/A	1E-228B	1974	replaced	No
Room Cooler Coil	Aerofin	900609	N/A	1E-228B	1990	replacement	Yes
Pipe Support	Bechtel	N/A	N/A	SP-HRC-118-H2002	1982	replaced (deleted)	No
Small Pipe Sub-assembly	Bechtel	N/A	N/A	SP-HRC-117-1	1982	replaced	Yes
Small Pipe Sub-assembly	PP&L	N/A	N/A	SP-HRC-117-1	1992	replacement	No
Small Pipe Sub-assembly	Bechtel	N/A	N/A	SP-HRC-118-1	1982	replaced	Yes
Small Pipe Sub-assembly	PP&L	N/A	N/A	SP-HRC-118-1	1992	replacement	No
Small Pipe Sub-assembly	Bechtel	N/A	N/A	SP-HRC-119-5	1982	replaced	Yes
Small Pipe Sub-assembly	PP&L	N/A	N/A	SP-HRC-119-5	1992	replacement	No
Small Pipe Sub-assembly	Bechtel	N/A	N/A	SP-HRC-120-2	1982	replaced	Yes
Small Pipe Sub-assembly	PP&L	N/A	N/A	SP-HRC-120-2	1992	replacement	No

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

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

Date: June 15, 1992

Sheet 3 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RCIC PUMP ROOM COOLING System 134F Class III

5. (a) Applicable Construction Code: See Remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Sub-assembly	Bechtel	N/A	N/A	SP-HRC-120-5	1982	replaced	Yes
Small Pipe Sub-assembly	PP&L	N/A	N/A	SP-HRC-120-5	1992	replacement	No
2" Ball Valve (boundary change)	Neles-Jamesbury	ND-328996-01F	N/A	1-11-121	1992	replacement (from 154A III)	Yes
2" Globe Valve (boundary change)	Vogt	36-215095	N/A	1-11-151	1985	replaced (to 154A III)	Yes
1/2" Globe Valve	Yarway	9918	N/A	1RV-FP-11178A	1977	replaced	Yes
1/2" Ball Valve	Neles-Jamesbury	NC-334123-01G	N/A	1RV-FP-11178A	1992	replacement	Yes
1/2" Globe Valve	Yarway	9921	N/A	2RV-FP-11178A	1977	replaced	Yes
1/2" Ball Valve	Neles-Jamesbury	NC-334123-01H	N/A	2RV-FP-11178A	1992	replacement	Yes
1/2" Globe Valve	Yarway	9931	N/A	1RV-FP-11178B	1977	replaced	Yes
1/2" Ball Valve	Neles-Jamesbury	NC-334123-01W	N/A	1RV-FP-11178B	1992	replacement	Yes
1/2" Globe Valve	Yarway	9965	N/A	2RV-FP-11178B	1977	replaced	Yes

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

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

Date: June 15, 1992

Sheet 4 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RCIC PUMP ROOM COOLING System 134F Class III

5. (a) Applicable Construction Code: See Remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" Ball Valve	Neles-Jamesbury	NC-334123-01X	N/A	2RV-FP-11178B	1992	replacement	Yes

NOI-QA-247
OSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz or vert, tank) | 900608 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl. (Spec. No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam. I.D. (ft & in.)) | 1'-9 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Time) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec. No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190° psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 10" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach.)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 66 (Number) | Straight (Type (Straight or U))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Time) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	4	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19 Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2868 (1) Mark: BFCO Item #9, PO# 8-43433-1, Item 2, DCP# 88-3045, For RCIC Pump Room, 60 PC/Adjustax, Coil Tag# 1E228A Unit Cooler 1V208A, Furnished on 89326769, (74S-4880)

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. 2916 expires December 9 19 92

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 21, 1990, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/28/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC05567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Name of the organization that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board, State, Province and No.)

NDI-QA-247
DSR #45.

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3 Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4 Type Heat Exchanger (Horiz or vert tank) | 900609 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG 120(a))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6 Shell: SA-240, T-316L (Matl. (Spec. No. Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam. I.D. (ft & in.)) | 1'-9 1/2" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec. No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11 MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi

Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12 Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 10" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

(Floating Matl. (Spec. No., Gr.)) | (Diam. (in.)) | (Nom. Thk. (in.)) | (Corr. Allow. (in.)) | (Attach.)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 66 (Number) | Straight (Type: Straight or U)

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No., Grade)) | (Nom. Thk. (in.)) | (Corr. Allow. (in.)) | (Diam. I.D. (ft & in.)) | (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | (R.T. (Spot or Full)) | (Eff. (%)) | (H.T. Temp. (°F))

(Type) | (Girth (Dbl., Sngl.)) | (R.T. (Spot, Partial, or Full)) | (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi

Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	2	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	4	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19 Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20 Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report. (Name of part, item number, mfr's name and identifying stamp)

TR-28 69 (1) Mark: BFCO Item # 10 PO# 8-43433-1, Item 2, DCP# 88-3045, For RCIC Pump Room, 60 PC/Adjustax, Coil Tag# 1E228 B Unit Cooler 1V208B, Furnished on 893267 70, (74S-4880)

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. 2916 expires December 9 19 92

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 21, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, NB03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov., and No.)

FORM NPV-1 N CERTIFICAT OLDERS' DATA REPORT FOR NUCLE JMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01 T	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01 U	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01 W	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01 X	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01 Y	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01 Z	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01 AA	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01 AB	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -36	351 Gr. CF8M	Southern Tool	Body
(2) RHD -76	351 Gr. CF8M	Southern Tool	Body
(3) RHD -35	351 Gr. CF8M	Southern Tool	Body
(4) RHD -62	351 Gr. CF8M	Southern Tool	Body
(5) RHD -28	351 Gr. CF8M	Southern Tool	Body
(6) RHD -68	351 Gr. CF8M	Southern Tool	Body
(7) RHD -44	351 Gr. CF8M	Southern Tool	Body
(8) RHD -24	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -8 & -35	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -25 & -26	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -4 & -32	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -7 & -28	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -38 & -39	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -40 & -56	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -3 & -104	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -18 & -37	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (all [illegible]ve
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap [illegible]
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01T, 01U, 01W, 01X, 01Y, 01Z, 01AA, 01AB

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974 Addenda NONE (Date), Code Case No. NONE Date 7 Feb. 92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald P Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (Sym) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7 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 2-7 19 92

X McGlagne (Inspector)

Commissions Factory Mutual Systems MA #1287 PA NC #2757 (Nat'l Bd., State, Prov. and No.)

PPL Doc NO: 45

FORM NPV-1 N CERTIFICAT' 'OLDERS' DATA REPORT FOR NUCLE' 'UMPS OR VALVES*
As Required L. ne Provisions of the ASME Code, Section ..., Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01A	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01B	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01C	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01D	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01E	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01F	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01G	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01H	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -5	351 Gr. CF8M	Southern Tool	Body
(2) RHD -48	351 Gr. CF8M	Southern Tool	Body
(3) RHD -32	351 Gr. CF8M	Southern Tool	Body
(4) RHD -17	351 Gr. CF8M	Southern Tool	Body
(5) RHD -55	351 Gr. CF8M	Southern Tool	Body
(6) RHD -38	351 Gr. CF8M	Southern Tool	Body
(7) RHD -53	351 Gr. CF8M	Southern Tool	Body
(8) RHD -4	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -9 & -13	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -6 & -79	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -33 & -36	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -61 & -70	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -112 & -155	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -1 & -166	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -14 & -73	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -42 & -81	351 Gr. CF3M	Southern Tool	Caps

. For manually operated valves only.

PP&L Doc No. 45

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

(6/83) This form (E00037) may be obtained from the Order Dept. ASME, 345 E. 47th St., N.Y., N.Y.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (all valv
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap *
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01A, 01B, 01C, 01D, 01E, 01F, 01G, 01H

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974, Addenda NONE (Date), Code Case No. NONE, Date 7 Feb 92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7, 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 2-7, 19 92 Factory Mutual Systems

[signature] (Inspector) Commissions MA # 1287 PAWC # 2757 (Nat'l Bd., State, Prov. and No.)

PP&L DOC NO: 45

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

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)
3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)
4. Pump or Valve Ball 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)	R21	ND-328996-01A	N/A	ND-328996-01Rev. D	3	N/A	1992
(2)	R21	ND-328996-01B	N/A	ND-328996-01Rev. D	3	N/A	1992
(3)							
(4)							
(5)	R21	ND-328996-01E	N/A	ND-328996-01Rev. D	3	N/A	1992
(6)	R21	ND-328996-01F	N/A	ND-328996-01Rev. D	3	N/A	1992
(7)	R21	ND-328996-01G	N/A	ND-328996-01Rev. D	3	N/A	1992
(8)							
(9)							
(10)							

5. Emergency Service Water System
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. Rtl

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 198o / 100° (Temperature) °F or Valve Pressure Class 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

	Mark No.	Material Spec. No.	Manufacturer	Remarks
	(a) Castings	ASME-SA		
(1)	RHV-5	351 Gr. CF8M	Pennsylvania Steel	Body
(2)	RHV-5	351 Gr. CF8M	Pennsylvania Steel	Body
(3)				
(4)				
(5)	RHT-2	351 Gr. CF8M	Pennsylvania Steel	Body
(6)	RHV-4	351 Gr. CF8M	Pennsylvania Steel	Body
(7)	RHU-6	351 Gr. CF8M	Pennsylvania Steel	Body
	(b) Forgings	ASME-SA		
(1)	RKA-7	351 Gr. CF8M	Southern Tool	Segment
(2)	RKA-19	351 Gr. CF8M	Southern Tool	Segment
(3)				Segment
(4)				
(5)	[illegible]	351 Gr. CF8M	Southern Tool	Segment
(6)	RKA-16	351 Gr. CF8M	Southern Tool	Segment
(7)	RKA-13	351 Gr. CF8M	Southern Tool	Segment

(1) For manually operated valves only.

RECORD PACKAGE PAGE 8 OF 9

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

PP&L Doc. No. 45

FORM NPV-1 (Back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
	(c) Bolting	ASME-SA		
	8078476	193 Grade B7	Nova Machine	Hex Hd. Cap Screw (All Valves)
	(d) Other Parts	ASME-SA		
(1)	RKK-6	240 Type 316	Jessop Steel Co.	End Plate
(2)	RKK-11	240 Type 316	Jessop Steel Co.	End Plate
(3)				
(4)				
(5)	RKK-2	240 Type 316	Jessop Steel Co.	End Plate
(6)	RKK-10	240 Type 316	Jessop Steel Co.	End Plate
(7)	RKK-7	240 Type 316	Jessop Steel Co.	End Plate

8. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. ND-328996-01A,01B, 01E, 01F,01G,

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974.
Addenda None (Date), Code Case No. None Date 24 Feb. 92
Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald P. Ruler
Our ASME Certificate of Authorization No. N-1228 to use the N (Stamp) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 08101
Stress analysis report (Class 1 only) on file at

Design specifications certified by (1) Frank J. Cryez
PE State PA Reg. No. PE-0250-49E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-26 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 2-27 19 92 (Inspector)

No. 91-055 RECORD PACKAGE PAGE 02

Factory Mutual Systems (HHT-1301) (Insp. Co., Street, Prov. and No.)

FP&L Doc No. 45

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: June 15, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 7

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOM COOLER FLEX HOSES (4)	ANAMET	N/A	N/A	1E-230A SUP. AND RETURN	87	REPLACED	NO
ROOM COOLER FLEX HOSES (4)	ANAMET	N/A	N/A	1E-230A SUP. AND RETURN	90	REPLACEMENT	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-230C SUP.	87	REPLACED	NO
ROOM COOLER FLEX HOSES (2)	ANAMET	N/A	N/A	1E-230C SUP.	90	REPLACEMENT	NO
ROOM COOLER FLEX HOSES (4)	ANAMET	N/A	N/A	1E-230B SUP. AND RETURN	87	REPLACED	NO
ROOM COOLER FLEX HOSES (4)	ANAMET	N/A	N/A	1E-230B SUP. AND RETURN	90	REPLACEMENT	NO

7. Description of Work: Replaced coils & ESW flex hoses, and modified ESW piping at RHR Pump Room Coolers.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [X] <--- COILS(125@57°F/135@55°F)
Other [ ] Pressure 194 / 195 psi Test Temp. 74 / 66 °F (LOOP "A" / LOOP "B")

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

DCP's 88-3049A & B, 89-3027, 89-3028 WA's C13548 C13549 C13550 C13551 C13577 C13583

Appl. codes: Hoses = ANSI B31.1 1973 Coils = ASME VIII 1986 with Code Case 1997-2 Piping =

ASME III 1971 W72 with Code Case N316 Valves = ASME III 1974 (no addenda)

WA's (cont'd): C13572 C13573 C13578 C13579

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 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 8-6-91 to 4-5-92, 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 PA 2159

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

Date JULY 22 1992

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: June 15, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 7

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOM COOLER FLEX HOSES (4)	ANAMET	N/A	N/A	1E-230D SUP. AND RETURN	87	REPLACED	NO
ROOM COOLER FLEX HOSES (4)	ANAMET	N/A	N/A	1E-230D SUP. AND RETURN	90	REPLACEMENT	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230A BOTTOM	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230A TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900617	N/A	1E-230A BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900616	N/A	1E-230A TOP	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230C BOTTOM	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230C TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900619	N/A	1E-230C BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900618	N/A	1E-230C TOP	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230B BOTTOM	74	REPLACED	NO

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: June 15, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 7

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230B TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900621	N/A	1E-230B BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900620	N/A	1E-230B TOP	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230D BOTTOM	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	N/A	N/A	1E-230D TOP	74	REPLACED	NO
ROOM COOLER COIL	AEROFIN	900623	N/A	1E-230D BOTTOM	90	REPLACEMENT	YES
ROOM COOLER COIL	AEROFIN	900622	N/A	1E-230D TOP	90	REPLACEMENT	YES
PIPE SUPPORT	BECHTEL	N/A	N/A	HRC-126-H1	82	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	HRC-126-H1	92	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	HRC-126-H2	82	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	HRC-126-H2	92	REPLACEMENT	NO

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

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

Date: June 15, 1992

Sheet 4 of 7

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	HRC-127-H2	82	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	HRC-127-H2	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-123-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-123-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-123-2	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-123-2	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-124-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-124-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-126-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-126-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-127-1	82	REPLACED	YES

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: June 15, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 7

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-127-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-130-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-130-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-131-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-131-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-124-6	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-124-6	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-126-4	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-126-4	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-127-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-127-1	92	REPLACEMENT	NO

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: June 15, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 6 of 7

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-131-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-131-2	92	REPLACEMENT	NO
1/2" GLOBE VALVE	YARWAY	9941	N/A	1RV-FP-11182A	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	9940	N/A	2RV-FP-11182A	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01J	N/A	1RV-FP-11182A	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01K	N/A	2RV-FP-11182A	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9952	N/A	1RV-FP-11182B	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	9943	N/A	2RV-FP-11182B	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01Y	N/A	1RV-FP-11182B	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01Z	N/A	2RV-FP-11182B	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9961	N/A	1RV-FP-11182C	77	REPLACED	YES

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

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

Date: June 15, 1992

Sheet 7 of 7

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR PUMP ROOM COOLING SYSTEM 134G CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	9922	N/A	2RV-FP-11182C	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01AA	N/A	1RV-FP-11182C	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01AB	N/A	2RV-FP-11182C	92	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	9911	N/A	1RV-FP-11182D	77	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	9944	N/A	2RV-FP-11182D	77	REPLACED	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01L	N/A	1RV-FP-11182D	92	REPLACEMENT	YES
1/2" BALL VALVE	NELES-JAMESBURY	NC-334123-01M	N/A	2RV-FP-11182D	92	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6068	N/A	RV-PP-11182A	76	REPLACED (DELETED)	YES

1E-230A BOT.

NOI-QA-2.4.7 C
DSR #45.

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz. or vert., tank) | 900617 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam I.D. (ft & in.)) | 2'-8" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Time) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl. Spec. No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edge & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi.
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 10" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach.)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Time) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No	Diam or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19 Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfr's name and identifying stamp)

TR-2877 (1) Mark: BECO Item18, PO# 8-43433-1, Item 4, DCP# 88-3049A, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230A, Unit Cooler 1V210A, Furnished on 89326778, (74S-4878)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 22, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682 PAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (and endorsements), State, Prov. and No.)

1E-230A TOP

NOI-QA-247
OSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation: Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type: Heat Exchanger | 900616 | -- | BM-R-15,N-R-4 | -- | 1990
(Horiz. or vert., tank) | (Mfr's serial No.) | (CRN) | (Drawing) | (Nat'l Bd No.) | (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The desig construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986 (Year)

-- (Addenda dates) | 1997-2 (Code Case No.) | -- (Special services per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam I.D. (ft & in.)) | 2'-8" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. (Matl., Spec No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld. bar, etc.) If bar, give dimensions _____ If bolted, describe or sketc

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 ps
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No., Gr.)) | 10" (Diam (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl. (Spec No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec No., Gr., Size No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-230

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfgr's name and identifying stamp)

TR-2876 (1) Mark: BECO Item17, PO# 8-43433-1, Item 4, DCP# 88-3049A, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230A, Unit Cooler 1V210A, Furnished on 89326777, (74S-4878)

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. 2916 expires December 9 19 92

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 22, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19_____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board, State, Province and No.)

1E-230C BOT.

NOI-QA-2.4.7
DSR #45.

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz. or vert., tank) | 900619 (Mfg's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam. I.D. (ft & in.)) | 2'-8" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sgl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Time) | -- (Girth (Dbl., Sgl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi.
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No., Gr.)) | 10" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl. (Spec No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sgl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Time) | _____ (Girth (Dbl., Sgl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec No., Gr., Size No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2879 (1) Mark: BFCO Item 20, PO# 8-43433-1, Item 4, DCP# 88-3049A, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230C, Unit Cooler 1V210C, Furnished on 89326780, (74S-4878)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 21, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PNUC03567 (Nat'l Bd., State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board and endorsements, State, Prov. and No.)

1E-230C TOP

NDI-QA-247
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz or vert, shell) | 900618 (Mfgr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l. Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam I.D. (ft & in.)) | 2'-8" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edge & weld bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi.
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec No., Gr.)) | 10" (Diam (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl (Spec No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec No., Grade) (b) Matl. _____ (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)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19 Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfr's. name and identifying number)

TR-2878 (1) Mark: BFCO Item 19 PO# 8-43433-1, Item 4, DCP# 88-3049A, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230C, Unit Cooler 1V210C, Furnished on 89326779.

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 21, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWCO3567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (and endorsements), State, Prov. and No.)

1E-230B BOT.

NDI-QA-247
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz. or vert., tank) | 900621 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG 120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl (Spec No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam I.D. (ft & in.)) | 2'-8" (Length (Overall) (ft & in.))

7. Seams: -- (Long (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Type) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No. Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl., Spec. No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as edges & weld. bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl (Spec. No., Gr.)) | 10" (Diam (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Type) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

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Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain etc.)	No	Diam. or Size	Type	Mat.	Nom. Thk.	Reinforcement Mat.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2881 (1) Mark: BECO Item 22 PO# 8-43433-1, Item 4, DCP# 88-3049B, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230B, Unit Cooler 1V210B, Furnished on 89326782, (74S-4877)

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. 2916 expires December 9, 19 92.

Date JUNE 29,1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 23, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, NB#C03567 (Nat'l Board/State Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov., and No.)

/E-230B TOP

NDI-QA-247 1
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger | 900620 | -- | BM-R-15,N-R-4 | -- | 1990
(Horiz. or vert., tank) | (Mfgr's serial No.) | (CRN) | (Drawing) | (Nat'l. Bd. No.) | (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986 (Year)

-- | 1997-2 | --
Addenda (date) | Code Case No. | Special services per UG-120(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L | 1.5" | -- | 0'-10" | 2'-8"
Matl (Spec. No., Grade) | Nom. Thk. (in.) | Corr. Allow. (in.) | Diam I.D. (ft & in.) | Length (Overall) (ft & in.)

7. Seams: -- | -- | -- | --
Long. (Dbl., Sngl.) | R.T. (Spot or Full) | Eff. (%) | H.T. Temp. (°F)

-- | -- | --
Type | Girth (Dbl., Sngl.) | R.T. (Spot, Partial, or Full) | No. of Courses

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl., Spec. No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi.
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 | 10" | .75" | -- | Bolted
Stationary Matl (Spec. No., Gr.) | Diam (in.) (Subject to pressure) | Nom. Thk. (in.) | Corr. Allow. (in.) | Attach (Welded, Bolted)

Floating Matl (Spec. No., Gr.) | Diam (in.) | Nom. Thk. (in.) | Corr. Allow. (in.) | Attach

13. Tubes: SB-676, Class 2 | .625" | .049" | 96 | Straight
Matl (Spec. No., Gr.) | O.D. (in.) | Nom. Thk. (in. or Gauge) | Number | Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____
Matl (Spec. No., Grade) | Nom. Thk. (in.) | Corr. Allow. (in.) | Diam I.D. (ft & in.) | Length (Overall) (ft & in.)

15. Seams: _____
Long. (Dbl., Sngl.) | R.T. (Spot or Full) | Eff. (%) | H.T. Temp. (°F)

_____
Type | Girth (Dbl., Sngl.) | R.T. (Spot, Partial, or Full) | No. of Courses

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1-1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1-1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2880 (1) Mark: BFCO Item 21 PO# 8-43433-1, Item 4, DCP# 88-3049B, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230B, Unit Cooler 1V210B, Furnished on 89326781, (74S-4877)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 23, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, NBWCD3567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov., and No.)

1E-230D BOT.

NOI-QA-247
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz. or vert., tank) | 900623 (Mfr's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l. Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl. (Spec. No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam. I.D. (ft & in.)) | 2'-8" (Length (Overall) (ft & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Time) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No., Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8M
(Matl., Spec. No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 10" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft & in.)) | _____ (Length (Overall) (ft & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Time) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

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Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19 Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2883 (1) Mark: BECO Item 24 PO# 8-43433-1, Item 4, DCP# 88-3049B, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1E230D, Unit Cooler 1V230D, Furnished on 89326784, (74S-8877)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 23, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/28/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC03562 (Nat'l Board/State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements) State, Prov. and No.)

1E-230D TOP

NOI-QA-2.4.7
DSR #45

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Aerofin Corporation, 4621 Murray Place, Lynchburg, VA 24502
(Name and address of manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address of purchaser)

3. Location of Installation Pennsylvania Power & Light Company, Susquehanna Station, Berwick, PA
(Name and address)

4. Type Heat Exchanger (Horiz. or vert., shell) | 900622 (Mfg's serial No.) | -- (CRN) | BM-R-15,N-R-4 (Drawing) | -- (Nat'l Bd. No.) | 1990 (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 1986 (Year)

-- (Addenda date) | 1997-2 (Code Case No.) | -- (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-240, T-316L (Matl. (Spec. No., Grade)) | 1.5" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | 0'-10" (Diam. I.D. (ft. & in.)) | 2'-8" (Length (Overall) (ft. & in.))

7. Seams: -- (Long. (Dbl., Sngl.)) | -- (R.T. (Spot or Full)) | -- (Eff. (%)) | -- (H.T. Temp. (°F))

-- (Trans.) | -- (Girth (Dbl., Sngl.)) | -- (R.T. (Spot, Partial, or Full)) | (No. of Courses)

8. Heads: (a) Matl. -- (Spec. No. Grade) (b) Matl. -- (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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

If removable, bolts used (describe other fastenings) 5/8" studs of SA-193 Gr. B8M; with 5/8" nuts of SA-194 Gr. 8
(Matl., Spec. No., Gr., Size No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ (Describe as ogee & weld, bar, etc.) If bar, give dimensions _____ If bolted, describe or sketch.

11. MAWP 190 psi at max. temp. 130 °F. Min. design metal temp. 33 °F at 190 psi
Hydro., pneu., or comb. test press. 285 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SB-688 (Stationary Matl. (Spec. No., Gr.)) | 10" (Diam. (in.) (Subject to pressure)) | .75" (Nom. Thk. (in.)) | -- (Corr. Allow. (in.)) | Bolted (Attach. (Welded, Bolted))

_____ (Floating Matl. (Spec. No., Gr.)) | _____ (Diam. (in.)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Attach.)

13. Tubes: SB-676, Class 2 (Matl. (Spec. No., Gr.)) | .625" (O.D. (in.)) | .049" (Nom. Thk. (in. or Gauge)) | 96 (Number) | Straight (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: _____ (Matl. (Spec. No., Grade)) | _____ (Nom. Thk. (in.)) | _____ (Corr. Allow. (in.)) | _____ (Diam. I.D. (ft. & in.)) | _____ (Length (Overall) (ft. & in.))

15. Seams: _____ (Long. (Dbl., Sngl.)) | _____ (R.T. (Spot or Full)) | _____ (Eff. (%)) | _____ (H.T. Temp. (°F))

_____ (Trans.) | _____ (Girth (Dbl., Sngl.)) | _____ (R.T. (Spot, Partial, or Full)) | _____ (No. of Courses)

16. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size, No.)

17. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi.
Hydro., pneu., or comb. test press. _____ psi.

(12/87) This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings

Purpose (Inlet, Outlet, Drain, etc.)	No	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	2" IPS	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
OUTLET	1	2"	W/N FLG	SA-182,T-316L	150LB	N/R	WELDED	END
VENTS	1	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END
DRAINS	3	1 1/8"	THD PLUG	SA-479	3000LB	N/R	THREADED	END

19. Supports: Skirt No (Yes or no) Lugs -- (No) Legs -- (No) Other -- (Describe) Attached -- (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, mfg's name and identifying stamp)

TR-2882 (1) Mark: BFCO Item 23 PO# 8-43433-1, Item 4, DCP# 88-3049B, For RHR Pump Room 250 PC/Adjustax, Coil Tag# 1F230D, Unit Cooler 1V210D, Furnished on 89326783, (74S-4877)

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. 2916 expires December 9, 19 92.

Date JUNE 29, 1990 Co. name Aerofin Corporation (Manufacturer) Signed [signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Aerofin Corporation at Lynchburg, VA

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 Virginia and employed by *Allendale Mutual Insurance of Norwood, Massachusetts have inspected the pressure vessel described in this Manufacturer's Data Report on JUNE 23, 19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the 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 6/29/90 Signed [signature] (Authorized Inspector) Commissions VA 682, PAWC 03567 (Nat'l Board, State, Province and No.)

*Factory Mutual System

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

Date _____ Co. name _____ (Assembler that certified and constructed field assembly) Signed _____ (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov. and No.)

FORM NPV-1 N CERTIFICAT OLDERS' DATA REPORT FOR NUCLE JMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)
3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)
4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01 T	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01 U	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01 W	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01 X	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01 Y	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01 Z	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01 AA	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01 AB	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -36	351 Gr. CF8M	Southern Tool	Body
(2) RHD -76	351 Gr. CF8M	Southern Tool	Body
(3) RHD -35	351 Gr. CF8M	Southern Tool	Body
(4) RHD -62	351 Gr. CF8M	Southern Tool	Body
(5) RHD -28	351 Gr. CF8M	Southern Tool	Body
(6) RHD -68	351 Gr. CF8M	Southern Tool	Body
(7) RHD -44	351 Gr. CF8M	Southern Tool	Body
(8) RHD -24	351 Gr. CF8M	Southern Tool	Body
(b) Forgings	ASME-SA		
(1) RHS -8 & -35	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -25 & -26	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -4 & -32	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -7 & -28	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -38 & -39	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -40 & -56	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -3 & -104	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -18 & -37	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (al
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01T, 01U, 01W, 01X, 01Y, 01Z, 01AA, 01AB

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974 Addenda NONE (Date). Code Case No. NONE. Date 7 Feb. 92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald P Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (Kind) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7 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 2-7 19 92

(Inspector)

Commissions Factory Mutual Systems MA #1287 PAWC #2757 (Nat'l Bd., State, Prov. and No.)

PP&L Doc NO. 45

FORM NPV-1 N CERTIFICA' .IOLDERS' DATA REPORT FOR NUCLE PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section ..., Div. 1

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size ½" (inch) Outlet Size ½" (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)	4CB	NC-334123-01J	N/A	NC-334123-01 Rev.C	2	N/A	1992
(2)	4CB	NC-334123-01K	N/A	NC-334123-01 Rev.C	2	N/A	1992
(3)	4CB	NC-334123-01L	N/A	NC-334123-01 Rev.C	2	N/A	1992
(4)	4CB	NC-334123-01M	N/A	NC-334123-01 Rev.C	2	N/A	1992
(5)	4CB	NC-334123-01N	N/A	NC-334123-01 Rev.C	2	N/A	1992
(6)	4CB	NC-334123-01P	N/A	NC-334123-01 Rev.C	2	N/A	1992
(7)	4CB	NC-334123-01R	N/A	NC-334123-01 Rev.C	2	N/A	1992
(8)	4CB	NC-334123-01S	N/A	NC-334123-01 Rev.C	2	N/A	1992
(9)							
(10)							

5. Emergency Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125° / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME-SA		
(1) RHD -30	351 Gr. CF8M	Southern Tool	Body
(2) RHD -19	351 Gr. CF8M	Southern Tool	Body
(3) RHD -15	351 Gr. CF8M	Southern Tool	Body
(4) RHD -61	351 Gr. CF8M	Southern Tool	Body
(5) RHD -74	351 Gr. CF8M	Southern Tool	Body
(6) RHD -57	351 Gr. CF8M	Southern Tool	Body
(7) RHD -69	351 Gr. CF8M	Southern Tool	Body
(8) RHD -73	351 Gr. CF8M	Southern Tool	Body
~~(b) Forgings~~	ASME-SA		
(1) RHS -17 & -41	351 Gr. CF3M	Southern Tool	Caps
(2) RHS -12 & -105	351 Gr. CF3M	Southern Tool	Caps
(3) RHS -20 & -119	351 Gr. CF3M	Southern Tool	Caps
(4) RHS -5 & -23	351 Gr. CF3M	Southern Tool	Caps
(5) RHS -34 & -82	351 Gr. CF3M	Southern Tool	Caps
(6) RHS -16 & -83	351 Gr. CF3M	Southern Tool	Caps
(7) RHS -10 & -31	351 Gr. CF3M	Southern Tool	Caps
(8) RHS -11 & -15	351 Gr. CF3M	Southern Tool	Caps

(1) For manually operated valves only.

PP&L Doc No. 45

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

(8/80) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME-SA		
9E0947	194 Gr. 8	Nova Machine	Hex Nut (al
9E0947	193 Gr. B8	Nova Machine	Hex HD. Cap SCR.
			*(all valves)
(d) Other Parts	ASME-SA		
RET	479 Type 316	Neles-Jamesbury	Ball (all valves

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. NC-334123-01J, 01K, 01L, 01M, 01N, 01P, 01R, 01S

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974 Addenda NONE (Date), Code Case No. NONE. Date 7 Feb 92

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires Oct. 27, 1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 18101

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

Design specifications certified by (1) Dale Stattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-7 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 2-7 19 92 Factory Mutual Systems

[signature] (Inspector) Commissions Ma #1287 FAWC #2757 (Nat'l Bd., State, Prov. and No.)

134KII

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

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

Date: May 21, 1992

Sheet 1 of 7

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

Unit: ONE

DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	HBD-188-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02860	N/A	HBD-188-H3	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H4	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03145	N/A	HBD-188-H4	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03498	N/A	HBD-188-H5	1978	REPLACED	N/A

7. Description of Work: Remove Snubbers and Pipe Supports and Modify Pipe Supports

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing Required
Other ☐ Pressure ____ psi Test Temp. ____ °F

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

FORM NIS-2 (Back)

9. Remarks Applicable Construction Codes: For Pipe Supports -ASME III 1971 Edition thru Winter 1972
Applicable Manufacturer's Data Reports to be attached

Addenda: for Snubbers - ASME III 1977 Edition thru Summer 1979 Addenda. Code Case N-411 & N-122

Snubber Reduction per Calculations SR-1039, SR-1040, SR-1042 and SR-1043.

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 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-27-92 to 4-30-92, 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 PA 2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 19 92

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

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

Date: May 21, 1992

Sheet 2 of 7

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

Unit: ONE

DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	HBD-188-H7	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	07289	N/A	HBD-188-H7	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	10742	N/A	HBD-188-H8A	1980	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	13946	N/A	HBD-188-H8B	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00399	N/A	HBD-188-H11A	1980	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	00238	N/A	HBD-188-H11B	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	17234	N/A	HBD-188-H12	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H14	1982	REPLACED	NO

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

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

Date: May 21, 1992

Sheet 3 of 7

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

Unit: ONE

DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	12961	N/A	HBD-188-H14A	1981	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	12977	N/A	HBD-188-H14B	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14381	N/A	HBD-188-H15A	1982	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	14386	N/A	HBD-188-H15B	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-188-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14395	N/A	HBD-188-H16	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBB-125-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03281	N/A	HBB-125-H2	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBB-126-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13460	N/A	HBB-126-H2	1981	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 4 of 7

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

Unit: ONE

DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	HBD-189-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02602	N/A	HBD-189-H2	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-189-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23917	N/A	HBD-189-H3	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-189-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06810	N/A	HBD-189-H5	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-189-H6	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22923	N/A	HBD-189-H6	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-189-H7	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22352	N/A	HBD-189-H7	1984	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-189-H8	1982	REPLACED	NO

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

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

Date: May 21, 1992

Sheet 5 of 7

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

Unit: ONE

DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	06798	N/A	HBD-189-H8	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-189-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02437	N/A	HBD-189-H9	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12181	N/A	HBD-1039-H1	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06581	N/A	HBD-1039-H2	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06582	N/A	HBD-1039-H3	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H4	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H7	1982	REPLACED	NO

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 6 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	17728	N/A	HBD-1039-H7	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	17211	N/A	HBD-1039-H11	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1039-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12960	N/A	HBD-1039-H12	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1040-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28862	N/A	HBD-1040-H9	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1040-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13050	N/A	HBD-1040-H10	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1040-H1	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	HBD-1040-H2	1982	REPLACED	NO

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 7 of 7

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

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13894, C13895, C13896,C13897 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 134K CLASS II

5. (a) Applicable Construction Code: See Remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	HBD-188-H9	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	HBD-188-H9	1992	REPLACEMENT	NO
MECH. SNUBBER	BECHTEL	02403	N/A	HBD-1040-H3	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	HBD-1040-H3	1992	REPLACEMENT	NO

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

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

Date: 5 MAY, 1992

Sheet 1 of 2

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

Unit: ONE

DCP 90-3108J, WA C13807, C13808 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR FEEDWATER SYSTEM 145A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S 79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-104-H2000	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-104-H2000	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-101-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04109-78	N/A	DLA-101-H1	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-103-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12623-85	N/A	DLA-103-H3	1986	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 INCLUDES PIPING CALC. # SR-876 & SR-880

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 S'Kual Date July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-9-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 7525 PA 2159 NJ

National Board, State, Province, and Endorsements

Date July 22 1992

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: 5 MAY, 1992

Sheet 2 of 2

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

Unit: ONE

DCP 90-3108J, WA C13807, C13808 (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 FEEDWATER SYSTEM 145A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S 79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-106-H2000	1982	REPLACED	NO

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

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

Date: JUNE 26, 1992

Sheet 1 of 1

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

Unit: ONE

PPL, PMR #92-9024, WA #C23208 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR FEEDWATER SYSTEM 145, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SPOOL	BECHTEL	N/A	N/A	DLA-102-1 FW15	1982	REPAIRED	YES

7. Description of Work: PERFORMED 360 DEGREE WELD BUILDUP ADJACENT TO FW 15

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 EVALUATION : ASME SECT 111,1977 EDITION THRU SUMMER 1979

Applicable Manufacturer's Data Reports to be attached

CODE CASE N411,CALC. SRO-876-1

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 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 4-12-92 to 4-17-92, 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 PA 2159 NI

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

Date July 22 19 92

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

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

Date: May 18, 1992

Sheet 1 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-108-H2015	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	18586	N/A	SP-DCA-108-H2015	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-108-H2016	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02419	N/A	SP-DCA-108-H2016	1976	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HBD-1115-H2002	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13439	N/A	SP-HBD-1115-H2002	1981	REPLACED	N/A

7. Description of Work: REMOVE SNUBBERS / NO REPLACEMENT--MODIFY SUPPORTS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing Required
Other ☐ Pressure ____ psi Test Temp. ____ °F

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

FORM NIS-2 (Back)

9. Remarks Applicable Construction Codes:for Snubbers - ASME III 1977 Edition thru Summer 1979 Addenda.

CODE CASE N-411 & N-122.

CALC. # SR-5801, SR-5802, SR-5803, SR-950A, SR-950B

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 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 3-26-92 to 4-30-92, 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 PA 2159 NI

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

Date July 22 19 92

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

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

Date: May 18, 1992

Sheet 2 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-HBD-1115-H2003	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28780	N/A	SP-HBD-1115-H2003	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HBD-1115-H2009	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22931	N/A	SP-HBD-1115-H2009	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2036	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22866	N/A	SP-DCA-126-H2036	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-126-H2036	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H38	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06254	N/A	SP-DCA-126-H38	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H39	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23569	N/A	SP-DCA-126-H39	1981	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 18, 1992

Sheet 3 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-126-H40	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06255	N/A	SP-DCA-126-H40	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H48	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	10915	N/A	SP-DCA-126-H48	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H50	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06329	N/A	SP-DCA-126-H50	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H54	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06277	N/A	SP-DCA-126-H54	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H55	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28970	N/A	SP-DCA-126-H55	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2033	1982	REPLACED	NO

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

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

Date: May 18, 1992

Sheet 4 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	21148	N/A	SP-DCA-126-H2033	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2037	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23547	N/A	SP-DCA-126-H2037	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2041	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22876	N/A	SP-DCA-126-H2041	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2043	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28732	N/A	SP-DCA-126-H2043	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2047	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22965	N/A	SP-DCA-126-H2047	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02624	N/A	DCA-110-H9	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 18, 1992

Sheet 5 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-110-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01297	N/A	DCA-110-H11	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01498	N/A	DCA-110-H12	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02555	N/A	DCA-110-H13	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H14	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02585	N/A	DCA-110-H14	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H31	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00765	N/A	DCA-110-H31	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H33	1982	REPLACED	NO

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

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

Date: May 18, 1992

Sheet 6 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	00187	N/A	DCA-110-H33	1988	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H34	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01295	N/A	DCA-110-H34	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H35	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02592	N/A	DCA-110-H35	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H36	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	11019	N/A	DCA-110-H36	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H5	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-110-H5	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H6	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-110-H6	1992	REPLACEMENT	NO

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

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

Date: May 18, 1992

Sheet 7 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-110-H26	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-110-H26	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H1	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-110-H1	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01636	N/A	DCA-110-H15	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01640	N/A	DCA-110-H16	1973	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H17	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01329	N/A	DCA-110-H17	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H18	1982	REPLACED	NO

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

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

Date: May 18, 1992

Sheet 8 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	02850	N/A	DCA-110-H18	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H22	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02580	N/A	DCA-110-H22	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H23	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02662	N/A	DCA-110-H23	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H24	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02603	N/A	DCA-110-H24	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H25	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC, SCIENTIFIC	01265	N/A	DCA-110-H25	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-110-H27	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02568	N/A	DCA-110-H27	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 18, 1992

Sheet 9 of 9

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

Unit: ONE

90-3108F WA C13907, C13908, C13909, C13913, C13914 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G CLASS 1

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-108-H6	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-108-H6	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-108-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01233	N/A	DCA-108-H10	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-108-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02610	N/A	DCA-108-H11	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-108-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01291	N/A	DCA-108-H12	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: June 15, 1992

Sheet 1 of 2

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

Unit: ONE

PMR 91-9080A, PMR 91-9080B, PMR 86-9080, WAs U13059, U23003 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL, SYSTEM 149G, CLASS I

5. (a) Applicable Construction Code: III 19 71 Edition, thruW'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" - 900# VALVE DISC	ANCHOR DARLING	*K3501 SEE REMARKS	N/A	HV-151F015B	1988	REPLACED	YES
24"- 900# VALVE DISC	ANCHOR DARLING	*K3501	N/A	HV-151F015B	1992	REPAIR	YES
24"- 900# VALVE DISC	ANCHOR DARLING	*K3501	N/A	HV-151F015B	1992	REPLACEMENT	YES
24" - 900# VALVE DISC	ANCHOR DARLING	17	N/A	HV-151F015A	1976	REPLACED	YES
24" - 900# VALVE DISC	ANCHOR DARLING	J1269	N/A	HV-151F015A	1992	REPLACEMENT	YES
24" - 900# VALVE BODY	ANCHOR DARLING	16	N/A	HV-151FO15A	1976	REPAIR	YES

7. Description of Work: Replaced valve disc and installed wear strips. Drilled 1/8" hole in valve disc. .

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ SE-159-031/032
Other ☐ Pressure 1022 psi Test Temp. 141 °F SE-149-201/202

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.

Applicable Manufacturer's Data Reports to be attached

EXISTING DISC FOR VLV HV-151F015B WAS REINSTALLED AFTER DRILLING OF 1/8" PRESSURE RELIEF HOLE. REPAIR CONSISTED OF INSTALLING A SEAL PLUG OVER A BROKEN DRILL BIT

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 20, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-14-92 to 3-28-92, 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 PA 2659 NBI

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

Date July 22 19 92

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

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

Date: June 15, 1992

Sheet 2 of 2

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

Unit: ONE

PMR 91-9080A, PMR 91-9080B, PMR 86-9080, WAs U13059, U23003 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL, SYSTEM 149G, CLASS I

5. (a) Applicable Construction Code: III 19 71 Edition, thruW'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LEAKOFF PLUG ON 24" GATE VALVE	ANCHOR DARLING	NA	N/A	HV-151F015A	NA	REPLACED	NO
LEAKOFF PLUG ON 24" GATE VALVE	ENERGY STEEL	HEAT CODE CJG	N/A	HV-151FO15A	1992	REPLACEMENT	NO

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, Div. 1

1. Anchor/Darling Valve Co., 701 F[illegible] [illegible]

(Name and Address) (Owner's Order No.)

Pennsylvania Power & Light Co., [illegible] Hun[illegible]

(Owner and Address of Purchaser) (Place of Installation)

(a) Manufacturer's Serial No. 31269

(b) Drawing No. D12143 Drawing Prepared by Anchor/Darling

(b) Description of Part Inspected Disc, Heat No. V9608

(c) Applicable ASME Code Section III, Edition 1971, Addenda date Wnt '72, Code No. N/A

3. Remarks 24"-900#-FW Gate

(Brief description of service for which component was designed)

A/DV S.O. P-C513-1

Note: No Disc Hydro Performed

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.

(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 3/8 19 88 Signed Anchor/Darling Valve Co. By B. Kovari

(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 6-2-87 thru 3-9-88 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 3-9 19 88

No. 88-0376
RECORD PACKAGE
PAGE 4 OF 44

Charles Young

Charles Young

Commission Pennsylvania 2392

National Board, State, Province and No.

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

Date: June 29, 1992

Sheet 1 of 2

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

Unit: ONE

PMR 89-9153A WAs C13698, C13699, C13700, C13701, C13702 and DCP 89-3049A WA C13505 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL, SYSTEM 149A, CLASS II

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PUMP 1P-202A / SEAL PIPING	INGERSOLL RAND	573308* SEE REMARKS	NA	FF 61862 SHT 1	1973	REPLACED	YES
PUMP 1P-202A / SEAL PIPING	PPL	573308	NA	FF 61862 SHT 1	1992	REPLACEMENT	NO
PUMP 1P-202B / SEAL PIPING	INGERSOLL RAND	573309	NA	FF61862 SHT 1	1973	REPLACED	YES
PUMP 1P-202B / SEAL PIPING	PPL	573309	NA	FF61862 SHT 1	1992	REPLACEMENT	NO
PUMP 1P-202C / SEAL PIPING	INGERSOLL RAND	573310	NA	FF61862 SHT 1	1973	REPLACED	YES
PUMP 1P-202C / SEAL PIPING	PPL	573310	NA	FF61862 SHT 1	1992	REPLACEMENT	NO

7. Description of Work: REPLACE SEAL PIPING FOR RHR PUMPS 1P-202A,B,C AND D AND MODIFY SUPPORT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure *'A' 320 / 'B' 280 psi Test Temp. *75° / 75° °F *'A' LOOP AND 'B' LOOP

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 SERIAL NUMBERS SHOWN ARE FOR PUMP ASSEMBLIES: 1P-202A, 1P-202B, 1P-202C AND 1P-202D, WHICH INCLUDED THE SEAL PIPING.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 8-14-91 to 4-9-92, 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 PA 2159 NI

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

Date July 22 19 92

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

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

Date: June 29, 1992

Sheet 2 of 2

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

Unit: ONE

PMR 89-9153A WAs C13698, C13699, C13700, C13701, C13702 and DCP 89-3049A WA C13505
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: RESIDUAL HEAT REMOVAL, SYSTEM 149A, CLASS II

5. (a) Applicable Construction Code: III 19 71 . Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PUMP 1P-202D / SEAL PIPING	INGERSOLL RAND	573311	NA	FF61862 SHT 1	1973	REPLACED	YES
PUMP 1P-202D / SEAL PIPING	PPL	573311	NA	FF61862 SHT 1	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBB-110-H27	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBB-110-H27	1992	REPLACEMENT	NO

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

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

Date: 6 July, 1992

Sheet 1 of 1

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

Unit: ONE

DCP 88-3031
WA #'S: C13097, C13100, & C13101
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: Residual Heat Removal System 149B III

5. (a) Applicable Construction Code: III 19 71, Edition, thru W'72 Addenda, 1567 * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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", 150#, S.S. FLG'D GATE VALVE	ANCHOR DARLING	EB323-1-18	N/A	1-12-084	1990	REPLACEMENT	YES
LARGE PIPE DRAIN ASSEMBLY	PP&L	NONE	N/A	HRC-112-1	1991	REPLACEMENT	NO
LARGE PIPE SUPPORT	BECHTEL	NONE	N/A	HBD-1125-H8	1982	REPLACED	NO
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	17222	N/A	HBD-1125-H8	N/A	REPLACED	NO

* CODE CASE 1567 IS FOR VALVE 1-12-084

7. Description of Work: Addition of new 3" drain to RHRSW HX inlet header & permanent removal of snubber.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 185 psi Test Temp. 68 °F SE-116-311

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 July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-20-91 to 5-30-92, 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 PA 2159 NI

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

Date July 22 1992

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. EB323

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 9-43270-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant 5 Miles N.E. of Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. ~~PMMXX~~ Valve Identification EB323-1-18

3"-150#-DD Gate Valve w/10" Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9023183 R/B Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 275 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1567

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#T4725	SA351-CF8M	Quaker Alloy, Inc.	
S/N 1			
Bonnet HT.#T4723	SA351-CF8M	Quaker Alloy, Inc.	
S/N 5			
(b) Forgings			
N/A			

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Bonnet Studs	SA193-B7	Texas Bolt Company	
HT #8875009			
Bonnet Nuts	SA194-2H	Texas Bolt Company	
HT.#6014728			
(d) Other Parts			
Disc HT.#A326	SA479-316L	LTV Steel	
S/N 63 & 64			

8. Hydrostatic test 425 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by D. 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 8/21 19 90 Signed Anchor/Darling Valve Co. (Manufacturer) By R L Stannett

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~PENNSYLVANIA~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 4-11 to 8-21 19 90, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 8-21 19 90

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

Charles Young

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: May 12, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3108L / WA C23224 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: RESIDUAL HEAT REMOVAL SYSTEM 149D CLASS II

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCB-102-H2	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCB-102-H2	1992	REPLACEMENT	NO

7. Description of Work: SNUBBER REDUCTION PROGRAM UNIT 1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 CALCULATION SR-885

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 4-22-92 to 4-30-92, 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 PA 2159 NI

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

Date July 22 1992

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

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

Date: May 15, 1992

Sheet 1 of 1

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

Unit: ONE

DCP#90-3108I WA#'s C13835 & C14118 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RCIC PUMP-TURBINE SYSTEM 150B CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-105-H2001	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13969-81	N/A	SP-DBA-105-H2001	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-105-H2001	1992	REPLACEMENT	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	12181-80	N/A	SP-DBA-105-H2001	1980	REPLACEMENT	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-105-H2002	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23586-81	N/A	SP-DBA-105-H2002	1981	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing 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 CASE# N-122, N-319, & N-411
Applicable Manufacturer's Data Reports to be attached

CALC#SR-951-1 & 5857

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 [illegible] Date July 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-13-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date JULY 22 1992

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: July 17, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — PMR#91-3019 WA#C13978 & C13980 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: R.C.I.C. TURBINE - PUMP SYSTEM 150B CLASS II

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, - Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 BODY	ANCHOR DARLING	E848	N/A	HV150F045	1976	REPLACED	YES
VALVE BODY	ANCHOR DARLING	U3894	N/A	HV150F045	1988	REPLACEMENT	YES
DISC	ANCHOR DARLING	E855	N/A	HV150F045	1976	REPLACED	NO
DISC	ANCHOR DARLING	1	N/A	HV150F045	1992	REPLACEMENT	YES
GASKET RETAINING RING	ANCHOR DARLING	HT.# 244079	N/A	HV150F045	1976	REPLACED	NO
GASKET RETAINING RING	ANCHOR DARLING	HT.# L01816	N/A	HV150F045	1988	REPLACEMENT	NO

7. Description of Work: Replaced Valve Body, Disc, & Gasket Retaining Ring on HV150F045(PMR#91-3019)

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 1580 psi Test Temp. 69 °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 [illegible] Date July 20, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-23-92 to 4-24-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[illegible] Commissions NB 2525 PA 2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 1992

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company 701 First St., Williamsport, Pa. 17701 (Name & Address of Manufacturer) Order No. E5853

2. Manufactured for Bechtel Corporation Box 3965, San Francisco, Calif. 94119 (Name and Address) Order No. 8856-P-10-A

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Salem Township, Luzerne County, Pennsylvania

5. ~~Pump~~ Valve Identification E5853-87-1

4" - 900# Pressure Seal Globe Valve with SMB-00-10 Operator
(Brief description of service for which equipment was designed)

(a) Drawing No. 93-13714 Rev. F Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 1230 (Pressure) psi 585 (Temperature) °F

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

Edition 1971, Addenda Date Winter 1972, Case No. 1516-1 and 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body Ht. 2163A, S/N E848	SA216-WCB	Penna. Radiographic Lab	
Disc Ht. 1198A, S/N E855	SA216-WCB	Penna. Radiographic Lab	
(b) Forgings			
Bonnet Ht. 216907, S/N 9	SA105-II	Cann & Saul Steel	

1028 127

*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.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
	N/A			
(d) Other Parts				
	Gasket Retaining Ring Ht. 244079	SA106-B	Keystone Tubular	Service Corp.

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Bechtel Corp., Box 3965, San Francisco, Calif. 94119

Stress analysis report on file at N/A Class 2

Design specifications certified by Frederick C. A. Dowsett (1) Prof. Eng. State Pa. Reg. No. 19854-E

Stress analysis report certified by N/A Class 2 (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 3/19 1976 Signed Anchor/Darling Valve Co By R L Stannert
(Manufacturer)
R. L. Stannert

Certificate of Authorization No. N779 expires 3-4-77.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~XXXXXXX~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 3-21-75 thru 3-22 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-22 1976

Russell E. Montgomery
(Inspector)
Russell E. Montgomery

Commissions Pennsylvania WC972
(National Board, State, Province and No.)

1028 128

FORM N-2 NPT CERTIFICATE HOLDER' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provisions of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for 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 U3894 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D12798 Drawing Prepared by Anchor/Darling Valve Compa

(b) Description of Part Inspected Body, Heat No. 4745A SA216-WCB

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 2

3. Remarks 4"-900#-Globe
(Brief description of service for which component was designed)
A/DV Shop Order P-D456-1

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

Date 5/9 19 88 Signed Anchor/Darling Valve Co. By R L Starmeit
(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 2-23-88 thru 5-9-88 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 5-9 19 88

Charles Young
Charles Young
(Inspector's Signature)

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

No. 88-0035
RECORD PACKAGE
PAGE 5 OF 55

*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 (E000 40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

8 9 0 2 7 2 3 0 4 0 2

8 9 1 1 1 1 1 5 4 0

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

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

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., 2 N. 9th St., Allentown, PA 18101
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part N/A Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C12270 Drawing Prepared by Anchor/Darling Valve Compan

(b) Description of Part Inspected Gasket Retaining Ring, Heat No. L01816 / SA106-B /

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 2

3. Remarks: 4"-900#-Globe
(Brief description of service for which component was designed)
A/DV S.O. P-D364-4

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 4/4 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 ~~XXXXXXX~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 2-12-88 thru 4-4-88 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 4-4 19 88

Charles Young
Inspector's Signature

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

No. 88-05
RECORD PACKAGE
PAGE 10 OF

*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 the number of sheets is recorded in item 3, "Remarks".

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

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

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Company, 2 N. 9th St., Allentown, PA 18101
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 1 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C23507 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat No. A204A SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. --- Class 2

3. Remarks: 4"-900#-Globe
(Brief description of service for which component was designed)

A/DV Shop Order E-T094-1

Reference to Disc Subassembly Drawing B65666

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 1/10 19 92 Signed Anchor/Darling Valve Co. By R L Stannett
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~XXXXXX~~ 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 11-12-91 thru 1-10-92 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 1-10 19 92

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: Pennsylvania Power & Light Co. (Name) — Date: June 15, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — PMR 91-9082A,91-9082B WAs C23026, C23025 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: CORE SPRAY, SYSTEM 151A, CLASS I

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
12" VALVE DISC	ANCHOR DARLING	*E738	N/A	HV-152-F005A	1975	REPLACED	YES
12" VALVE DISC	ANCHOR DARLING	E738	N/A	HV-152-F005A	1992	REPLACEMENT	YES
12" VALVE DISC	ANCHOR DARLING	*E737	N/A	HV-152-FOO5B	1976	REPLACED	YES
12" VALVE DISC	ANCHOR DARLING	E737	N/A	HV-152-F005B	1992	REPLACEMENT	YES

7. Description of Work: DRILL 1/8" DIA. HOLE IN VALVE DISC

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ SE-159-034 / 035
Other ☐ Pressure 1000 psi Test Temp. 141 °F SE-151-201 / 202

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 EXISTING DISCs FOR HV152F005A AND HV152F005B WERE REINSTALLED AFTER
Applicable Manufacturer's Data Reports to be attached

DRILLING OF 1/8" PRESSURE RELIEF HOLES.

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 20, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-14-92 to 4-30-92, 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 PA 2159 NJ
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22, 1992

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: May 13, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA# C13834 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: HPCI TURBINE & AUX. 152B CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-102-H2001	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	18580-81	N/A	SP-DBA-102-H2001	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-102-H2018	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	02824-78	N/A	SP-DBA-102-H2018	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-102-H2018	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-102 H2019	1982	REPLACED	NO

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing 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 CASE#'s N-122, N-319, & N-411.

Applicable Manufacturer's Data Reports to be attached

CALC. #SR-5856

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 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-13-92 to 4-3-92, 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 PA 2159 NJ

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

Date July 22 1992

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: May 13, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA# C13834 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: HPCI TURBINE & AUX. 152B CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PCAIFIC SCIENTIFIC	02409-77	N/A	SP-DBA-102-H2019	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-102-H2019	1992	REPLACEMENT	NO

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

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

Date: July 16, 1992

Sheet 1 of 1

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

Unit: ONE

89-9158A- C13474 AND C13475
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: HIGH PRESSURE COOLANT INJECTION SYSTEM 152 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	ANDERSON GREENWOOD	N83034	2063	IC-PT-15601-TEST	1991	REPLACEMENT	YES
VALVE	ANDERSON GREENWOOD	N83035	2064	IC-PT-15601	1991	REPLACEMENT	YES
VALVE	ANDERSON GREENWOOD	N83036	2065	OP1-PT-15601	1991	REPLACEMENT	YES
VALVE	ANDERSON GREENWOOD	N83037	2066	1-DRAIN-PT-15601	1991	REPLACEMENT	YES
TUBING	PP&L	N/A	N/A	JD-28-1-5	1992	REPLACEMENT	NO
PIPE	PP&L	N/A	N/A	SP-DBB-114-1	1992	REPLACEMENT	NO

7. Description of Work: INSTALL HPCI STOP VALVE BALANCE CHAMBER TRANSMITTER

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 1540 psi Test Temp. 59 °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 July 17, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components descnbed in this Owner's Report during the period 6-14-91 to 9-15-92, 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 PA 2159 NI

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

Date JUL/ 22 1992

1. Manufactured and certified by ANDERSON, GREENWOOD & CO., 3950 GREENBRIAR, STAFFORD, TX. 77477
(name and address of N Certificate Holder)

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

3. Location of installation SUSQUEHANNA STEAM ELECTRIC STATION, 5 MILES NE OF BERWICK ON US RT 11, BERWICK, PA 18603
(name and address)

4. Model No., Series No., or Type H7HS-3TC-M Drawing H06-0025-002 Rev. (D) CRN N.A

5. ASME Code, Section III, Division 1: 1983 (edition) S-85 (addenda date) 2 (class) N.A (Code Case no.)

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

7. Material: Body SA479-316 Bonnet SA479-316 Disk A276-316(BALL) 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.
N83025	2054	A934-19	A667	13405
N83026	2055	A934-73	A667	13405
N83027	2056	A934-56	A667	13405
N83028	2057	A934-68	A667	13405
N83029	2058	A934-03	A667	13405
N83030	2059	A934-18	A667	13405
N83031	2060	A934-42	A667	13405
N83032	2061	A934-37	A667	13405
N83033	2062	A934-46	A667	13405
N83034	2063	A934-25	A667	13405
N83035	2064	A934-26	A667	13405
[illegible]	2065	A934-52	A667	13405
[illegible]	2066	A934-24	A667	13405
[illegible]	2067	A934-39	A667	13405
[illegible]	2068	A934-38	A667	13405
N83040	2069	A934-54	A667	13405
N83041	2070	A934-98	A667	13405
N83042	2071	A934-[illegible]	A667	13405
N83043	2072	A934-[illegible]	A667	13405
N83044	2073	A934-58	A667	13405
N83045	2074	A934-10	A667	13405
N83046	2075	A934-29	A667	13405
N83047	2076	A934-31	A667	13405
N83048	2077	A934-70	A667	13405
N83049	2078	A934-66	A667	13405

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

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

9 1 2 1 0 2 0 2 1 0

Certificate Holder's Serial No. NB3025 THRU NB3049

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

9. Cold working pressure 6000 psi at 100°F

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

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by PAUL D. MARINSHAW P.E. State TX. Reg. no. 49874

Design Report certified by N-A P.E. State N-A Reg. no. N-A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2829 Expires 9-10-93

Date 6-28-91 Name ANDERSON, GREENWOOD AND CO. 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 TEXAS and employed by C.H.I.C. of BOSTON, MA. have inspected the pump, or valve, described in this Data Report on 6-28-91, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6-28-91 Signed Shawn T Hall Commissions NB8957 TX1425
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

9 1 2 1 0 2 0 2 1 1

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 18, 1992

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

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: Emergency Service Water System 154A Class III

5. (a) Applicable Construction Code: III 19 71 Edition, W '72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	Yarway	A4726	N/A	1-10-112	1978	Replaced	Yes
Pipe Support	Bechtel	N/A	N/A	SP-HRC-110-H2012	N/A	Replaced	No
Pipe Support	Bechtel	N/A	N/A	SP-JRD-128-H2	N/A	Replaced	No
Pipe Support	Bechtel	N/A	N/A	SP-JRD-128-H2017	N/A	Replaced	No
1" Sch. XXS Pipe	Bechtel	N/A	N/A	SP-HRC-110-6	N/A	Replaced	No
1" S.W. Pipe Cap	PP&L	N/A	N/A	HRC-110	N/A	Replacement	No

7. Description of Work: Cut and cap to remove a section of 1" HRC-110 ESW Keepfill piping. (SEE REMARKS)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Under SE-054-301
Other ☐ Pressure 130 psi Test Temp. 50 °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 DCP 89-3015D,88-3047A ,89-9153A / WAs C04034,C13442,C13698,C13703,C13704,

Applicable Manufacturer's Data Reports to be attached

C13705,C13706

(# 7) DESCRIPTION OF WORK: INSTALL BLIND (PANCAKE) INSERTS TO REPLACE RS 11189A,B,C,D

AND FE 11189A,B,C,D

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 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO, of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 11-6-90 to 4-2-92, 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 PA 2157 NE

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

Date July 22 19 92

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 May 18, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 3

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

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

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

Expiration Date N/A

4. Indentification of System Emergency Service Water System 154A Class III

5. (a) Applicable Construction Code III 19 71 Edition, W '72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-HRC-120-H2003	N/A	Replaced	No
RS 11189A	Bechtel	NA	NA	SP-HRC-126-5	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-126-5	1992	REPLACEMENT	NO
FE 11189A	VICKERY-SIMMS	NA	NA	SP-HRC-127-2	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-127-2	1992	REPLACEMENT	NO
RS 11189B	BECHTEL	NA	NA	SP-HRC-123-2	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-123-2	1992	REPLACEMENT	NO
FE 11189B	VICKERY-SIMMS	NA	NA	SP-HRC-124-2	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-124-2	1992	REPLACEMENT	NO
RS 11189C	NA	NA	NA	SP-HRC-130-1	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-130-1	1992	REPLACEMENT	NO

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 18, 1992

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

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

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

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: Emergency Service Water System 154A Class III

5. (a) Applicable Construction Code: III 19 71 Edition, W '72 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FE 11189C	VICKERY-SIMMS	NA	NA	SP-HRC-131-1	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-131-1	1992	REPLACEMENT	NO
RS 11189D	NA	NA	NA	SP-HRC-123-7	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-123-7	1992	REPLACEMENT	NO
FE 11189D	VICKERY-SIMMS	NA	NA	SP-HRC-124-8	NA	REPLACED	NO
BLIND (PANCAKE) INSERTS	PPL	NA	NA	SP-HRC-124-8	1992	REPLACEMENT	NO

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

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

Date: 6 July, 1992

Sheet 1 of 1

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

Unit: ONE

DCP 90-3005
WA'S: C04410 & C04412
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER 154A-III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUB ASSEMBLY	PP&L	NONE	N/A	HRC-101-1	1991	REPLACEMENT	NO
SMALL PIPE DRAIN ASSEMBLY	PP&L	NONE	N/A	SP-HRC-101-2	1991	REPLACEMENT	NO
2", 150#, S.S. BALL VALVE	JAMESBURY	ND-286829 -03H	N/A	1-11-172	1990	REPLACEMENT	YES

5.a, (cont'd): CONSTRUCTION CODE FOR VALVE 1-11-172 IS:

ASME SECTION III, 1974 EDTION THRU WINTER 1975 ADDENDA.

7. Description of Work: INSTALLATION OF NEW ESW SUPPLY HEADER 2" DRAIN

8. Tests Conducted: Hydrostatic [ ] Pneumatic [X] Nominal Operating Pressure [ ]
Other [ ] Pressure 195 psi Test Temp. 68 °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 Report; Form NPV-1, is 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 16, 19 92
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-1-91 to 2-15-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB 7525 PA2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 22 19 92

FORM NPV-1 N CERTIF' 'E HOLDERS' DATA REPORT FOR NU R PUMPS OR \
As Requi. by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Neles-Jamesbury, Inc. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two Ninth St., Allentown, PA
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electr
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size 2" (inch) Outlet Size

	(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.
(1)	6150	ND-286829-03G	N/A	ND286829-03 Rev. A	3	N/A
(2)	6150	ND-286829-03H	N/A	ND286829-03 Rev. A	3	N/A
(3)	6150	ND-286829-03J	N/A	ND286829-03 Rev. A	3	N/A
(4)	6150	ND-286829-03K	N/A	ND286829-03 Rev. A	3	N/A
(5)	6150	ND-286829-03L	N/A	ND286829-03 Rev. A	3	N/A
(6)	6150	ND-286829-03M	N/A	ND286829-03 Rev. A	3	N/A
(7)	6150	ND-286829-03N	N/A	ND286829-03 Rev. A	3	N/A
(8)	6150	ND-286829-03P	N/A	ND286829-03 Rev. A	3	N/A
(9)	6150	ND-286829-03Q	N/A	ND286829-03 Rev. A	3	N/A
(10)						

5. Service Water
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT 11.

6. Design Conditions Seat 170 / Body 275 (Pressure) psi 150 / 100 (Temperature) °F or Valve Pressure Class 150

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	ASME SA		
(1) RAN-7	351 Grade CF3M	Shell Cast Corp.	Body
(2) RAM-5	351 Grade CF3M	Shell Cast Corp.	Body
(3) RAM-12	351 Grade CF3M	Shell Cast Corp.	Body
(4) RAM-9	351 Grade CF3M	Shell Cast Corp.	Body
(5) RAN-3	351 Grade CF3M	Shell Cast Corp.	Body
(6) RAN-8	351 Grade CF3M	Shell Cast Corp.	Body
(7) RAM-14	351 Grade CF3M	Shell Cast Corp.	Body
(8) RAM-3	351 Grade CF3M	Shell Cast Corp.	Body
(9) RAM-16	351 Grade CF3M	Shell Cast Corp.	Body
(b) ~~Forgings~~ Castings	ASME SA		
(1) RAS-28	351 Grade CF3M	Shell Cast Corp.	Body Cap
(2) RAS-27	351 Grade CF3M	Shell Cast Corp.	Body Cap
(3) RAS-6	351 Grade CF3M	Shell Cast Corp.	Body Cap
(4) RAS-37	351 Grade CF3M	Shell Cast Corp.	Body Cap
(5) RAS-11	351 Grade CF3M	Shell Cast Corp.	Body Cap
(6) RAP-4	351 Grade CF3M	Shell Cast Corp.	Body Cap
(7) RAS-19	351 Grade CF3M	Shell Cast Corp.	Body Cap
(8) RAS-42	351 Grade CF3M	Shell Cast Corp.	Body Cap
(9) RAS-12	351 Grade CF3M	Shell Cast Corp.	Body Cap

(1) For manually operated valves only.

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

Mark No.	Material Spec. No.	Manufacturer	
(c) Bolting	ASME SA		
007	193 Gr. B8	Nova Machine	S
	ASME SA		
006	194 Gr. 8	Nova Machine	He:
(d) Other Parts	ASME SA		
RAB	479 TYPE 316	Neles-Jamesbury	Bal

9. Hydrostatic test 425 psi. Disk Differential test pressure ------ psi. ND-286829-03G,03H, 03N,03P,

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conform construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1 Addenda Winter '75 (Date), Code Case No. NONE. Date 11 Dec 90

Signed Neles-Jamesbury Inc. (N Certificate Holder) by [signature]

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

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two N. Ninth St.,

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

Design specifications certified by (1) Dale Sattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves and the State or Province of MASS and employed by: Protection Mutu of Norwood, Mass have inspected the pump, or valve, described in this Dat DEC 11 19 90, and state that to the best of my knowledge and belief, the N Certificate H structed 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 the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be manner for any personal injury or property damage or a loss of any kind arising from or connected with this i

Factory Mutual Sys

Date 12-11 19 90

[signature] (Inspector) Commissions MA-1301 PAWC 33 (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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: June 15, 1992

Sheet 1 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
(Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-123-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-123-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-123-2	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-123-2	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-124-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-124-1	92	REPLACEMENT	NO

7. Description of Work: MODIFIED ESW SUPPLY AND RETURN LINES TO ECCS AND RCIC ROOM COOLERS.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 194 / 195 psi Test Temp. 74 / 66 °F (LOOP "A" / LOOP "B")

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

WA's (cont'd.): C13583, C13572, C13573, C13578, C13579

APPL. CODES: Piping = ASME III 1971 thru W'72 addenda with Code Case N316 Valves = ASME III 1974 W'75 addenda, and ASME III 1974 (no addenda)

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 17, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 11-5-91 to 4-5-92, 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 PA 2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 1992

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

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

Date: June 15, 1992

Sheet 2 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-126-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-126-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-127-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-127-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-130-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-130-1	92	REPLACEMENT	NO
LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-131-1	82	REPLACED	YES
LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-131-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-117-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-117-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-117-2	82	REPLACED	YES

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

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

Date: June 15, 1992

Sheet 3 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____, Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-117-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-118-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-118-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-118-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-118-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-119-3	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-119-3	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-119-5	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-119-5	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-120-3	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-120-3	92	REPLACEMENT	NO

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

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

Date: June 15, 1992

Sheet 4 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-120-5	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-120-5	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-121-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-121-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-121-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-121-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-122-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-122-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-122-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-122-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-125-1	82	REPLACED	YES

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

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

Date: June 15, 1992

Sheet 5 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-125-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-125-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-125-2	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-126-1	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-126-1	92	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-126-2	82	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-126-2	92	REPLACEMENT	NO
2" GLOBE VALVE	YARWAY	5706	N/A	1-11-108	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01A	N/A	1-11-108	91	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5744	N/A	1-11-109	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-328996-01J	N/A	1-11-109	92	REPLACEMENT	YES

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

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

Date: July 15, 1992

Sheet 6 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581,C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	5764	N/A	1-11-110	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01B	N/A	1-11-110	91	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5697	N/A	1-11-111	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-328996-01K	N/A	1-11-111	92	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5760	N/A	1-11-114	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01C	N/A	1-11-114	91	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5759	N/A	1-11-115	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-328996-01M	N/A	1-11-115	92	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5767	N/A	1-11-116	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01E	N/A	1-11-116	91	REPLACEMENT	YES
2" GLOBE VALVE (boundary change)	YARWAY	5708	N/A	1-11-117	76	REPLACED (TO 134E III)	YES

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

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

Date: June 15, 1992

Sheet 7 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	5723	N/A	1-11-118	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01G	N/A	1-11-118	91	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5704	N/A	1-11-119	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-328996-01P	N/A	1-11-119	92	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5751	N/A	1-11-120	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01H	N/A	1-11-120	91	REPLACEMENT	YES
2" GLOBE VALVE (boundary change)	YARWAY	5735	N/A	1-11-121	76	REPLACED (TO 134F III)	YES
2" GLOBE VALVE	YARWAY	5717	N/A	1-11-122	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01J	N/A	1-11-122	91	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5705	N/A	1-11-123	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-328996-01R	N/A	1-11-123	92	REPLACEMENT	YES

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

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

Date: June 15, 1992

Sheet 8 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	5768	N/A	1-11-124	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01K	N/A	1-11-124	91	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5712	N/A	1-11-125	76	REPLACED	YES
2" BALL VALVE	NELES-JAMESBURY	ND-328996-01S	N/A	1-11-125	92	REPLACEMENT	YES
3" BUTTERFLY VALVE	JAMESBURY	ND-21305-08-A	N/A	1-11-126A	76	REPLACED	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02A	N/A	1-11-126A	91	REPLACEMENT	YES
3" BUTTERFLY VALVE	JAMESBURY	ND-21305-08-E	N/A	1-11-126B	77	REPLACED	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02B	N/A	1-11-126B	91	REPLACEMENT	YES
3" BUTTERFLY VALVE	JAMESBURY	ND-21305-08-C	N/A	1-11-126C	76	REPLACED	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02C	N/A	1-11-126C	91	REPLACEMENT	YES
3" BUTTERFLY VALVE	JAMESBURY	ND-21305-08-D	N/A	1-11-126D	76	REPLACED	YES

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

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

Date: June 15, 1992

Sheet 9 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581,C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" BALL VALVE	NELES-JAMESBURY	ND-288249-02D	N/A	1-11-126D	91	REPLACEMENT	YES
2" BALL VALVE (boundary change)	NELES-JAMESBURY	ND-288249-01F	N/A	1-11-150	91	REPLACEMENT (from 134E III)	YES
2" BALL VALVE (boundary change)	NELES-JAMESBURY	ND-288249-01D	N/A	1-11-151	91	REPLACEMENT (from 134F III)	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02E	N/A	1-11-158A	91	REPLACEMENT (NEW)	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02F	N/A	1-11-158B	91	REPLACEMENT (NEW)	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02G	N/A	1-11-158C	91	REPLACEMENT (NEW)	YES
3" BALL VALVE	NELES-JAMESBURY	ND-288249-02H	N/A	1-11-158D	91	REPLACEMENT (NEW)	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01L	N/A	1-11-159	91	REPLACEMENT (NEW)	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01M	N/A	1-11-160	91	REPLACEMENT (NEW)	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01N	N/A	1-11-161	91	REPLACEMENT (NEW)	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01P	N/A	1-11-162	91	REPLACEMENT (NEW)	YES

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

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

Date: June 15, 1992

Sheet 10 of 10

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

Unit: ONE

DCP: 89-3027, 89-3028 WA: C13574, C13575, C13576, C13577, C13580, C13581, C13582, CONT'D.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 154A CLASS III

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" BALL VALVE	NELES-JAMESBURY	ND-288249-01Q	N/A	1-11-163	91	REPLACEMENT (NEW)	YES
2" BALL VALVE	NELES-JAMESBURY	ND-288249-01R	N/A	1-11-164	91	REPLACEMENT (NEW)	YES

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

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

1. Manufactured by Neles-Jamesbury, Inc. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric*
(Name and Address)

4. Pump or Valve Ball 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)	6150	ND-288249-01A	N/A	ND-288249-01 Rev.A	3	N/A	1991
(2)	6150	ND-288249-01B	N/A	ND-288249-01 Rev.A	3	N/A	1991
(3)	6150	ND-288249-01C	N/A	ND-288249-01 Rev.A	3	N/A	1991
(4)	6150	ND-288249-01D	N/A	ND-288249-01 Rev.A	3	N/A	1991
(5)	6150	ND-288249-01E	N/A	ND-288249-01 Rev.A	3	N/A	1991
(6)	6150	ND-288249-01F	N/A	ND-288249-01 Rev.A	3	N/A	1991
(7)	6150	ND-288249-01G	N/A	ND-288249-01 Rev.A	3	N/A	1991
(8)	6150	ND-288249-01H	N/A	ND-288249-01 Rev.A	3	N/A	1991
(9)	6150	ND-288249-01J	N/A	ND-288249-01 Rev.A	3	N/A	1991
(10)	6150	ND-288249-01K	N/A	ND-288249-01 Rev.A	3	N/A	1991

5. Emergency Water Service
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT 11.

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125 / 100 (Temperature) °F or Valve Pressure Class 150 (1)

Cold Working Pressure 275 psi at 100°F.

8. Pressure Retaining Pieces

	Mark No.	Material Spec No ASME-SA	Manufacturer	Remarks
(1)	(a) Castings RAL-21	351 Gr. CF3M	Shellcast Corp.	Body
(2)	RAN-6	351 Gr. CF3M	Shellcast Corp.	Body
(3)	RAN-5	351 Gr. CF3M	Shellcast Corp.	Body
(4)	RAL-27	351 Gr. CF3M	Shellcast Corp.	Body
(5)	RAL-29	351 Gr. CF3M	Shellcast Corp.	Body
(6)	RAL-19	351 Gr. CF3M	Shellcast Corp.	Body
(7)	RAL-7	351 Gr. CF3M	Shellcast Corp.	Body
(8)	RAN-1	351 Gr. CF3M	Shellcast Corp.	Body
(9)	RAL-17	351 Gr. CF3M	Shellcast Corp.	Body
(10)	RAL-6	351 Gr. CF3M	Shellcast Corp.	Body
(1)	RAS-24	351 Gr. CF3M	Shellcast Corp.	Cap
(2)	~~(b) Forgings~~ RAS-39	351 Gr. CF3M	Shellcast Corp.	Cap
(3)	RAP-1	351 Gr. CF3M	Shellcast Corp.	Cap
(4)	RAP-3	351 Gr. CF3M	Shellcast Corp.	Cap
(5)	RAP-2	351 Gr. CF3M	Shellcast Corp.	Cap
(6)	RAS-36	351 Gr. CF3M	Shellcast Corp.	Cap
(7)	RAR-1	351 Gr. CF3M	Shellcast Corp.	Cap
(8)	RAR-5	351 Gr. CF3M	Shellcast Corp.	Cap
(9)	RAR-4	351 Gr. CF3M	Shellcast Corp.	Cap
(10)	RAS-18	351 Gr. CF3M	Shellcast Corp.	Cap

(1) For manually operated valves only.

P.P. & L. Doc No. 45

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in Items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

FORM NPV-1 (Back)

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bolting	ASME-SA		
207	193 Gr.B8	Nova Machine	Stud (All Valves)
206	194 Gr. 8	Nova Machine	Nut (All Valves)
(d) Other Parts	ASME-SA		
RAT	479 TYPE 316	Neles-Jamesbury	Ball (All Valves)

9 Hydrostatic test 425 psi. Disk Differential test pressure ----- psi ND-288249-01A Thru 01H, 01J, 01K

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components Section III, Div I, Edition 1974.
Addenda Winter - 75 (Date). Code Case No NONE. Date 9 JAN 1991
Signed Neles-Jamesbury Inc. (N Certificate Holder) by Gerald P Menard
Our ASME Certificate of Authorization No N-1226 to use the N (N) symbol expires 10/27/93 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18101
Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Dale Sattar
PE State PA Reg No PE 019525E
Stress analysis certified by (1) N/A
PE State N/A Reg No N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Mass have inspected the pump, or valve, described in this Data Report on Jan 9 19 91, 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.

Factory Mutual System

Date Jan 9 19 91
(Inspector) Commissions MA1207 PA 2758 (Nat'l Bd., State, Prov. and No.)

P.P. & L. Doc. No. 45

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

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

1. Manufactured by Neles-Jamesbury, Inc. 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

Manufactured for Pennsylvania Power & Light Co., Two Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric*
(Name and Address)

4. Pump or Valve Ball 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)	6150	ND-288249-01L.	N/A	ND-288249-01	Rev.A 3	N/A	1991
(2)	6150	ND-288249-01M	N/A	ND-288249-01	Rev.A 3	N/A	1991
(3)	6150	ND-288249-01N	N/A	ND-288249-01	Rev.A 3	N/A	1991
(4)	6150	ND-288249-01P	N/A	ND-288249-01	Rev.A 3	N/A	1991
(5)	6150	ND-288249-01Q	N/A	ND-288249-01	Rev.A 3	N/A	1991
(6)	6150	ND-288249-01R	N/A	ND-288249-01	Rev.A 3	N/A	1991
(7)	6150	ND-288249-01S	N/A	ND-288249-01	Rev.A 3	N/A	1991
(8)	6150	ND-288249-01T	N/A	ND-288249-01	Rev.A 3	N/A	1991
(9)	6150	ND-288249-01U	N/A	ND-288249-01	Rev.A 3	N/A	1991
(10)	6150	ND-288249-01V	N/A	ND-288249-01	Rev.A 3	N/A	1991

5 Emergency Water Service
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. RT 11.

6. Design Conditions Seat 177 / Body 275 psi (Pressure) 125 / 100 °F (Temperature) or Valve Pressure Class 150 (1)

Cold Working Pressure 275 psi at 100°F.

Pressure Retaining Pieces

	Mark No.	Material Spec No ASME-SA	Manufacturer	Remarks
(1)	(a) Castings RAM-8	351 Gr. CF3M	Shellcast Corp.	Body
(2)	RAL-5	351 Gr. CF3M	Shellcast Corp.	Body
(3)	RAL-11	351 Gr. CF3M	Shellcast Corp.	Body
(4)	RAL-33	351 Gr. CF3M	Shellcast Corp.	Body
(5)	RAL-13	351 Gr. CF3M	Shellcast Corp.	Body
(6)	RAM-13	351 Gr. CF3M	Shellcast Corp.	Body
(7)	RAL-22	351 Gr. CF3M	Shellcast Corp.	Body
(8)	RAL-2	351 Gr. CF3M	Shellcast Corp.	Body
(9)	RAL-4	351 Gr. CF3M	Shellcast Corp.	Body
(10)	RAL-16	351 Gr. CF3M	Shellcast Corp.	Body
(1)	RAS-23	351 Gr. CF3M	Shellcast Corp.	Cap
(2)	~~(b) Forgings~~ RAS-25	351 Gr. CF3M	Shellcast Corp.	Cap
(3)	RAS-21	351 Gr. CF3M	Shellcast Corp.	Cap
(4)	RAR-6	351 Gr. CF3M	Shellcast Corp.	Cap
(5)	RAS-14	351 Gr. CF3M	Shellcast Corp.	Cap
(6)	RAS-40	351 Gr. CF3M	Shellcast Corp.	Cap
(7)	RAS-26	351 Gr. CF3M	Shellcast Corp.	Cap
(8)	RAS-41	351 Gr. CF3M	Shellcast Corp.	Cap
(9)	RAS-33	351 Gr. CF3M	Shellcast Corp.	Cap
	RAR-8	351 Gr. CF3M	Shellcast Corp.	Cap

(1) For manually operated valves only.

P.P. & L. Doc No. 65

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in Items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

FORM NPV-1 (Back)

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bolting	ASME-SA		
207	193 Gr.B8	Nova Machine	Stud (All Valves)
206	194 Gr. 8	Nova Machine	Nut (All Valves)
(d) Other Parts	ASME-SA		
RAT	479 TYPE 316	Neles-Jamesbury	Ball (All Valves)

9 Hydrostatic test 425 psi. Disk Differential test pressure ----- psi ND-288249-01L Thru 01P, 01Q Thru 01V

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components Section III, Div I, Edition 1974. Addenda Winter - 75 (Date). Code Case No NONE. Date 9 Jan 1991

Signed Neles-Jamesbury Inc. (N Certificate Holder) by Gerald P Menard

Our ASME Certificate of Authorization No N-1228 to use the N (N) symbol expires 10/27/93 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18101

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

Design specifications certified by (1) Dale Sattar

PE State PA Reg No PE 019525E

Stress analysis certified by (1) N/A

PE State N/A Reg No N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASS and employed by Protection Mutual of Norwood, Mass have inspected the pump, or valve, described in this Data Report on Jan 9 19 91, 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 Jan 9 19 91

Factory Mutual System

(Inspector)

Commissions MA 1207 PA 2357-B (Nat'l Bd., State, Prov and No.)

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

1. Manufactured by Neles-Jamesbury, Inc. 640 Lincoln St., Worcester, MA 01615
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric *
(Name and Address)

4. Pump or Valve Ball Valve. Nominal Inlet Size 3 (inch) Outlet Size 3 (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)	6150	ND288249-02 A	N/A	ND-288249-02Rev.A	3	N/A	1991
(2)	6150	ND288249-02 B	N/A	ND-288249-02Rev.A	3	N/A	1991
(3)	6150	ND288249-02 C	N/A	ND-288249-02Rev.A	3	N/A	1991
(4)	6150	ND288249-02 D	N/A	ND-288249-02Rev.A	3	N/A	1991
(5)	6150	ND288249-02 E	N/A	ND-288249-02Rev.A	3	N/A	1991
(6)	6150	ND288249-02 F	N/A	ND-288249-02Rev.A	3	N/A	1991
(7)	6150	ND288249-02 G	N/A	ND-288249-02Rev.A	3	N/A	1991
(8)	6150	ND288249-02 H	N/A	ND-288249-02Rev.A	3	N/A	1991
(9)							
(10)							

5. Emergency Water Service
(Brief description of service for which equipment was designed)
*Station, 5Mi NE of Berwick on U.S. Rt.11

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 125oF / 100 (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(1) (a) Castings	RCJ-7	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(2)	RCJ-15	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(3)	RCJ-17	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(4)	RCH-1	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(5)	RCJ-14	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(6)	RCJ-13	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(7)	RCH-3	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(8)	RCJ-11	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Body
(1)	RCK-11	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(b) Forgings				
(2)	RCK-6	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(3)	RCK-24	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(4)	RCK-18	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(5)	RCK-21	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(6)	RCK-16	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(7)	RCK-12	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap
(8)	RCK-9	ASME SA 351 Gr. CF3M	Neles-Jamesbury	Cap

or manually operated valves only.

P.P. & L. DOC. NO. 45

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

Mark No	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	ASME - SA		
QP5	193 Gr. B8	Nova Machine	Stud (All Valves)
QQ1	194 Gr. 8	Nova Machine	Nut (All Valves)
(d) Other Parts	ASME - SA		
PZW	479 TYPE 316	Neles-Jamesbury	Ball (All Valves)

9. Hydrostatic test 425 psi. Disk Differential test pressure ----- psi. ND-288249-02A,02B,02C,02D,02E,02F 02G,02H.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974. Addenda Winter - 75 (Date). Code Case No. NONE. Date 25 APRIL 91

Signed Neles-Jamesbury, Inc. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1228 to use the N (Kind) symbol expires 10/27/93 (Date).

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two N. Ninth St.,Allentown, PA 1810

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

Design specifications certified by (1) Dale Sattar

PE State PA Reg. No. PE 019525E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Protection Mutual of Norwood, MA have inspected the pump, or valve, described in this Data Report on April 25 19 91, 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 4-25 19 91. Factory Mutual Systems

[signature] (Inspector) Commissions MA-1418 (Nat'l Bd., State, Prov. and No.)

P.P. & L. DOC. NO. 43

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

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

1. Manufactured by Neles-Jamesbury, Inc., 640 Lincoln St., Worcester, MA 01605
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation Pennsylvania Power & Light Co., Susquehanna Steam Electric*
(Name and Address)

4. Pump or Valve Ball 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)	R21	ND-328996-01J	N/A	ND-328996-01Rev. D	3	N/A	1992
(2)	R21	ND-328996-01K	N/A	ND-328996-01Rev. D	3	N/A	1992
(3)	R21	ND-328996-01M	N/A	ND-328996-01Rev. D	3	N/A	1992
(4)	R21	ND-328996-01N	N/A	ND-328996-01Rev. D	3	N/A	1992
(5)							
(6)	R21	ND-328996-01P	N/A	ND-328996-01Rev. D	3	N/A	1992
(7)	R21	ND-328996-01R	N/A	ND-328996-01Rev. D	3	N/A	1992
(8)	R21	ND-328996-01S	N/A	ND-328996-01Rev. D	3	N/A	1992
(9)							
(10)							

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

*Station, 5Mi NE of Berwick on U.S. Rtl

6. Design Conditions Seat 177 / Body 275 (Pressure) psi 1980 / 100° (Temperature) °F or Valve Pressure Class 150 (1)

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

8. Pressure Retaining Pieces

	Mark No.	Material Spec. No.	Manufacturer	Comments
	(a) Castings	ASME-SA		
(1)	RHV-1	351 Gr. CF8M	Pennsylvania Steel	Body
(2)	RHV-6	351 Gr. CF8M	Pennsylvania Steel	Body
(3)	RHW-5	351 Gr. CF8M	Pennsylvania Steel	Body
(4)	RHT-1	351 Gr. CF8M	Pennsylvania Steel	Body
(5)				
(6)	RHV-2	351 Gr. CF8M	Pennsylvania Steel	Body
(7)	RHW-6	351 Gr. CF8M	Pennsylvania Steel	Body
(8)	RHW-3	351 Gr. CF8M	Pennsylvania Steel	Body
	(b) Forgings	ASME-SA		
(1)	RKA- 14	351 Gr. CF8M	Southern Tool	Segment
(2)	RKA- 21	351 Gr. CF8M	Southern Tool	Segment
(3)	RKA- 29	351 Gr. CF8M	Southern Tool	Segment
(4)	RKA- 1	351 Gr. CF8M	Southern Tool	Segment
(5)				
	[illegible] 15	351 Gr. CF8M	Southern Tool	Segment
(7)	[illegible] 31	351 Gr. CF8M	Southern Tool	Segment
(8)	RKA- 27	351 Gr. CF8M	Southern Tool	Segment

(1) For manually operated valves only.

RECORD PACKAGE PAGE 10 OF 92

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

This form (E00007) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
	(c) Bolting	ASME-SA		
	8078476	193 Grade B7	Nova Machine	Hex Hd. Cap Screw (All Valves)
	(d) Other Parts	ASME-SA		
(1)	RKK-8	240 Type 316	Jessop Steel Co.	End Plate
(2)	RKK-12	240 Type 316	Jessop Steel Co.	End Plate
(3)	RKK-16	240 Type 316	Jessop Steel Co.	End Plate
(4)	RKK-1	240 Type 316	Jessop Steel Co.	End Plate
(5)				
(6)	RKK-9	240 Type 316	Jessop Steel Co.	End Plate
(7)	RKK-18	240 Type 316	Jessop Steel Co.	End Plate
(8)	RKK-14	240 Type 316	Jessop Steel Co.	End Plate

9. Hydrostatic test 425 psi. Disk Differential test pressure ——— psi. MD-328996-01J,01K,01M,01N, 01P,01R, 01S

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974.
Addenda None (Date). Code Case No. None Date 26 Feb 92
Signed Neles-Jamesbury, Inc. (N Certificate Holder) by Donald P. Parker
Our ASME Certificate of Authorization No. N-1228 to use the N (ST) symbol expires Oct.27,1993 (Date)

CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Co., Two North Ninth St., Allentown PA 08101
Stress analysis report (Class T only) on file at
Design specifications certified by (1) Frank J. Czyez
PE State PA Reg. No. PE-0250-49E
Stress analysis certified by (1) N/A
PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Protection Mutual of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 2-26 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 2-27 19 92 (Inspector) Factory Mutual Systems (Nat'l Bd., State, Prov. and No.)

No. 93-0853 RECORD PACKAGE PAGE 03

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

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

Date: June 25, 1992

Sheet 1 of 3

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

Unit: ONE

PMR# 89-9153C / WA#'S C13916 THRU C13919 (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: EMERGENCY SERVICE WATER, SYSTEM 154A, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HBC-139-1	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HBC-139-1	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HBC-139-3	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HBC-139-3	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HBC-139-4	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HBC-139-4	1992	REPLACEMENT	NO

7. Description of Work: ADDED FLANGES TO THE EXISTING ESW SUPPLY AND RETURN LINES TO THE RHR PUMPS A THRU D

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]
Pressure SEE REMARKS psi Test Temp. SEE REMARKS °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 LOOP 'A' HYDRO: 194 PSIG, 74.8° F; LOOP 'B' HYDRO: 195 PSIG, 66.0° F

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 SUPERINTENDENT OF PLANT Date July 16, 19 92

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-27-92 to 4-9-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date July 22 19 92

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

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

Date: June 25, 1992

Sheet 2 of 3

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

Unit: ONE

PMR# 89-9153C / WA#'S C13916 THRU C13919 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER, SYSTEM 154A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HBC-140-1	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HBC-140-1	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HBC-140-2	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HBC-140-2	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HBC-140-4	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HBC-140-4	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-123-1	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-123-1	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-123-7	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-123-7	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-124-1	1982	REPLACED	YES

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

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

Date: June 25, 1992

Sheet 3 of 3

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

Unit: ONE

PMR# 89-9153C / WA#'S C13916 THRU C13919 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER, SYSTEM 154A, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-124-1	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-124-8	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-124-8	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-126-5	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-126-5	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-127-2	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-127-2	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-130-1	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-130-1	1992	REPLACEMENT	NO
SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-131-1	1982	REPLACED	YES
SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SP-HRC-131-1	1992	REPLACEMENT	NO

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

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

Date: May 12, 1992

Sheet 1 of 1

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

Unit: ONE

PMR 90-3108L / WA C23170 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: PRIMARY CONTAINMENT SYSTEM 159A CLASS II

5. (a) Applicable Construction Code: III 19 77 Edition, thruS'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTAINMENT LINER PLATE	CHICAGO BRIDGE & IRON	PA. SPECIAL PV4665	N/A	PA. I.D. Nº 469479	1976	REPAIR	NO

7. Description of Work: SNUBBER REDUCTION PROJECT UNIT 1 ADDED STIFFENERS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 CIVIL CALCULATION EF-C-DMG-151

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 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 3-11-92 to 4-25-92, 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 PA 2159 NI

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

Date July 22 1992

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

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

Date: July 16, 1992

Sheet 1 of 2

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

Unit: ONE

90-3051A - C13456, C13457, C13458, C13459
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: SUPPRESSION POOL AND AUXILIARY SYSTEM 159A 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	ANDERSON GREENWOOD	N83025	2054	OP1-PT-15729A	1991	REPLACEMENT	YES
VALVE	ANDERSON GREENWOOD	N83028	2057	1-DRAIN-PT-15729A	1991	REPLACEMENT	YES
5 VALVE MANIFOLD	ANDERSON GREENWOOD	N14978	N/A	IC1-PT-15729A IC1-PT-15729A-EQ	1991	REPLACEMENT	YES
TUBING	PP&L	N/A	N/A	JD-27-1-2A	1982 1992	REPLACE REPLACEMENT	NO
VALVE	ANDERSON GREENWOOD	N83026	2055	1-DRAIN-PT-15729B	1991	REPLACEMENT	YES
VALVE	ANDERSON GREENWOOD	N83027	2056	OP1-PT-15729B	1991	REPLACEMENT	YES

7. Description of Work: INSTALL SUPPRESSION POOL DIV I AND DIV II PRESSURE TRANSMITTERS

8. Tests Conducted: Hydrostatic [ ] Pneumatic [X] Nominal Operating Pressure [ ]
Other [ ] Pressure 72 psi Test Temp. AMBIENT °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 Schlal Date July 17, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO, of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 6-21-91 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 2525 PA 2159 NI

National Board, State, Province, and Endorsements

Date July 22 19 92

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

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

Date: July 16, 1992

Sheet 2 of 2

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

Unit: ONE

90-3051A - C13456, C13457, C13458, C13459 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: SUPPRESSION POOL AND AUXILIARY SYSTEM 159A 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 VALVE MANIFOLD	ANDERSON GREENWOOD	N14981	N/A	IC1-PT-15729B IC1-PT-15729B-EQ	1991	REPLACEMENT	YES
TUBING	PP&L	N/A	N/A	JD-25-1-3B	1982 1992	REPLACE REPLACEMENT	NO

FORM NPV-1 CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR PUMPS

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

1. Manufactured and certified by ANDERSON, GREENWOOD & CO., 3950 GREENBRIAR, STAFFORD, TX. 77477
(name and address of N Certificate Holder)

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

3. Location of installation SUSQUEHANNA STEAM ELECTRIC STATION, 5 MILES NE OF BERWICK ON US RT 11, BERWICK, PA 18603
(name and address)

4. Model No., Series No., or Type HZHS-3TC-N Drawing K06-0025-002 Rev. (D) CRN N-A

5. ASME Code, Section III, Division 1: 1983 (edition) S-85 (addenda date) 2 (class) N-A (Code Case no.)

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

7. Material: Body SA479-316 Bonnet SA479-316 Disk A276-316(BALL) 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.
N83025	2054	A934-19	A667	13405
N83026	2055	A934-71	A667	13405
N83027	2056	A934-56	A667	13405
N83028	2057	A934-68	A668	13405
N83029	2058	A934-03	A667	13405
N83030	2059	A934-16	A667	13405
N83031	2060	A934-42	A667	13405
N83032	2061	A934-37	A667	13405
N83033	2062	A934-46	A667	13405
N83034	2063	A934-25	A667	13405
N83035	2064	A934-26	A667	13405
N83036	2065	A934-52	A667	13405
N83037	2066	A934-24	A667	13405
N83038	2067	A934-39	A667	13405
N83039	2068	A934-36	A667	13405
N83040	2069	A934-54	A667	13405
N83041	2070	A934-98	A667	13405
N83042	2071	A934-80	A667	13405
N83043	2072	A934-49	A667	13405
N83044	2073	A934-58	A667	13405
N83045	2074	A934-10	A667	13405
N83046	2075	A934-29	A667	13405
N83047	2076	A934-14	A668	13405
N83048	2077	A934-70	A667	13405
N83049	2078	A934-66	A667	13405

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

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

9112020210

Certificate Holder's Serial No. 183025 THRU 183049

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

9. Cold working pressure 6000 psi at 100°F

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

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by PAUL D. MARINSHAW P.E. State TX. Reg. no. 49874

Design Report certified by N-A P.E. State N-A Reg. no. N-A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2823 Expires 9-10-93

Date 6-28-91 Name ANDERSON, GREENWOOD AND CO. (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 TEXAS and employed by C.U.I.C. of BOSTON, MA have inspected the pump, or valve, described in this Data Report on 6-28-91, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6-28-91 Signed Sharon Z Hall (Authorized Inspector) Commissions NB8954 TX1425 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anderson, Greenwood & Co; 5425 S. Rice Ave; Order No. 94.0254.04
(Name & Address of Manufacturer) Houston, TX 77081

2. Manufactured for Bechtel Power Corp; P.O. Box 384; Berwick, Order No. 8856-J-94-AC
(Name and Address) PA 18603

3. Owner Pennsylvania Power and Light Company

4. Location of Plant Susquehanna Steam Elec Sta; 4.5 mi NE of Berwick, PA on Rt. 11 N

5. Pump or Valve Identification Serial # N14972 thru N14996

5-Valve Manifold
(Brief description of service for which equipment was designed)

(a) Drawing No. N02-8248-601 Prepared by Anderson, Greenwood and Company

(b) National Board No. N/A

6. Design Conditions 2240 / psi (Pressure) 800 °F (Temperature)

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

Edition 1974, Addenda Date N/A, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings N/A			

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

490 4297

BECHTEL

499

File GAO

Form NPV-1 (back) thru N14996

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Rolling	N/A			
(d) Other Parts				
	N02-8264-002	SA479-316	Gulfalloy	Pipe plug 1/8"
	N02-8264-004	SA479-316	Gulfalloy	Pipe plug ½"
	N02-2583-002	SA479-316	AGCO	Bonnet
	N02-8247-501	SA479-316	AGCO	Body
	N02-1519-002	SA213-316	AGCO	Tube
	N02-8274-001	A276-316	Ultraspherics	Ball

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Anderson, Greenwood & Company

Stress analysis report on file at N/A

Design specifications certified by Lawrence S. Loomer (1) Prof. Eng. State PA Reg. No. 19875-E

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

(1) Signature not required. List name only.

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

Date 6/24 1982 Signed Anderson, Greenwood & Co. (Manufacturer) By Joseph A. Pasko

Certificate of Authorization No. 2203 expires 8/4/84

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Texas and employed by C.U.I.C. of Boston, Mass. have inspected the equipment described in this Data Report on JUNE 24 1982, 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 6-24 1982

Matthew V. Pollock (Inspector) Commissions Tx. 1037 PE-IN WC #2825 ~~1053~~ (National Board, State, Province and No.)

(Printed in U.S.A. 1972) This form (E37) is obtainable from the 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: Pennsylvania Power & Light Co. (Name) — Date: 7 July, 1992

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

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

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3035C/D WA# C14085, C14086 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Identification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	BORG WARNER	15326	N/A	144F008A	1976	REPLACED	YES
1" GLOBE VALVE	BORG WARNER	15298	N/A	144F008B	1976	REPLACED	YES
1" GLOBE VALVE	BORG WARNER	15399	N/A	144F009A	1976	REPLACED	YES
1" GLOBE VALVE	BORG WARNER	15403	N/A	144F009B	1976	REPLACED	YES
1" GLOBE VALVE	BORG WARNER	851W1204	N/A	144F010A	1987	REPLACED	YES
1" GLOBE VALVE	BORG WARNER	851W1206	N/A	144F010B	1987	REPLACED	YES

7. Description of Work: REMOVAL OF PIPING, VALVES, AND HANGERS. REPLACEMENT UNDER 161B III

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 Manufacturer's Data Reports; Forms NPV-1 are attached.
Applicable Manufacturer's Data Reports to be attached

These valves were all permanently removed from 161B-II, and are now added to 161B-III.

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 16, 19 92
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 3-7-92 to 4-30-92, 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 PA 2159 NE
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 19 92

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 July, 1992

Sheet 2 of 3

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

Unit: ONE

PMR 90-3035C/D WA# C14085, C14086 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	BORG WARNER	15397	N/A	144F011A	1976	REPLACED	YES
1" GLOBE VALVE	BORG WARNER	851W1205	N/A	144F011B	1987	REPLACED	YES
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-DCB-124-1	1982	REPLACED	YES
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-DCB-124-2	1982	REPLACED	YES
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-DCB-124-3	1982	REPLACED	YES
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-DCB-124-4	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2000	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2001	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2002	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2003	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2004	1982	REPLACED	NO

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

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

Date: 2 July, 1992

Sheet 3 of 3

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

Unit: ONE

PMR 90-3035C/D WA# C14085, C14086 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2005	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2006	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2007	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2008	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-124 H-2009	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP DCB-124 H-2010	1982	REPLACED	NO

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

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

Date: 15 July, 1992

Sheet 1 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components
SEE PAGE 13 FOR EXCEPTIONS TO CONSTRUCTION CODE

Name of 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							
4" GATE VALVE	ANCHOR DARLING	E5853-109-4	N/A	144F043A	1976	REPLACED	YES
4" GATE VALVE	ANCHOR DARLING	ET044-3-1	N/A	144F043A	1992	REPLACEMENT	YES
4" GATE VALVE	ANCHOR DARLING	E5853-109-2	N/A	144F043B	1976	REPLACED	YES
4" GATE VALVE	ANCHOR DARLING	ET044-3-2	N/A	144F043B	1992	REPLACEMENT	YES
4" GATE VALVE	ANCHOR DARLING	E5853-109-3	N/A	144F005A	1976	REPLACED	YES
4" GATE VALVE	ANCHOR DARLING	ET044-3-3	N/A	144F005A	1992	REPLACEMENT	YES

7. Description of Work: REPLACEMENT OF PUMPS, VALVES, AND PIPING FOR THE RWCU SYSTEM.

8. Tests Conducted: * Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ * SEE PAGE 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 CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

WA# C14071, C14072, C14089, C14090, C14091, C14092, C14097, C14098, C14100, C14103, C23060.

CODE DATA REPORTS NOT REQ'D FOR PUMPS 1P221A / B (CASE, MOTOR, & HEAT EXCHANGER

VALVE 144F012A REPAIRED BY ANCHOR DARLING VIA SERVICE ORDER S-14829-5

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 17, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 1-20-92 to 4-21-92, 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 PA 2159 NI

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

Date July 22, 19 90

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

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

Date: July 6, 1992

Sheet 2 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4" GATE VALVE	ANCHOR DARLING	E5853-109-1	N/A	144F005B	1976	REPLACED	YES
4" GATE VALVE	ANCHOR DARLING	ET044-3-4	N/A	144F005B	1992	REPLACEMENT	YES
3" CHECK VALVE	ANCHOR DARLING	E5853-88-2	N/A	144F012A	1975	REPLACED	YES
3" CHECK VALVE	ANCHOR DARLING	EB378-1-1	N/A	144F012A	1990	REPLACEMENT	YES
3" CHECK VALVE	ANCHOR DARLING	EB378-1-1	N/A	144F012A	1990	REPAIRED	YES
3" CHECK VALVE	ANCHOR DARLING	E5853-88-1	N/A	144F012B	1975	REPLACED	YES
3" CHECK VALVE	ANCHOR DARLING	ET044-1-1	N/A	144F012B	1992	REPLACEMENT	YES
3" GATE VALVE	ANCHOR DARLING	E5853-95-2	N/A	144F013A	1975	REPLACED	YES
3" GATE VALVE	ANCHOR DARLING	ET044-2-1	N/A	144F013A	1992	REPLACEMENT	YES
3" GATE VALVE	ANCHOR DARLING	E5853-95-1	N/A	144F013B	1975	REPLACED	YES
3" GATE VALVE	ANCHOR DARLING	ET044-2-3	N/A	144F013B	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 6, 1992

Sheet 3 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	5777	N/A	144014A	1976	REPLACED	YES
2" GLOBE VALVE	YARWAY	C2784	N/A	144014A	1992	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5774	N/A	144014B	1976	REPLACED	YES
2" GLOBE VALVE	YARWAY	C2787	N/A	144014B	1992	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5778	N/A	144015A	1976	REPLACED	YES
2" GLOBE VALVE	YARWAY	C2785	N/A	144015A	1992	REPLACEMENT	YES
2" GLOBE VALVE	YARWAY	5770	N/A	144015B	1976	REPLACED	YES
2" GLOBE VALVE	YARWAY	C2786	N/A	144015B	1992	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6094	N/A	144804	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	C2765	N/A	144804	1992	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6029	N/A	144805	1976	REPLACED	YES

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

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

Date: July 15, 1992

Sheet 4 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" GLOBE VALVE	YARWAY	C2760	N/A	144805	1992	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6100	N/A	144806	1976	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	B6468	N/A	144806	1982	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6112	N/A	144807	1976	REPLACED	YES
1/2" GLOBE VALVE	YARWAY	A8355	N/A	144807	1979	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6331	N/A	144808	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	C2769	N/A	144808	1992	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6132	N/A	144809	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	C2766	N/A	144809	1992	REPLACEMENT	YES
1" GLOBE VALVE	YARWAY	6095	N/A	1RV-PP-14407A	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	6385	N/A	2RV-PP-14407A	1976	REPLACED	YES

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: July 6, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 14

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

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" GLOBE VALVE	YARWAY	6273	N/A	1RV-PP-14407B	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	6108	N/A	2RV-PP-14407B	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	6251	N/A	1RV-PP-14408A	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	5838	N/A	2RV-PP-14408A	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	6106	N/A	1RV-PP-14408B	1976	REPLACED	YES
1" GLOBE VALVE	YARWAY	6284	N/A	2RV-PP-14408B	1976	REPLACED	YES
1" ANGLE VALVE	YARWAY	N/A	N/A	144022A	N/A	REPLACEMENT	NO
1" ANGLE VALVE	YARWAY	N/A	N/A	144022B	N/A	REPLACEMENT	NO
1/2" GLOBE VALVE	YARWAY	B6475	N/A	144028	1982	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	B6464	N/A	144029	1982	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	B6461	N/A	144030	1982	REPLACEMENT	YES

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

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

Date: July 6, 1992

Sheet 6 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" GLOBE VALVE	YARWAY	A8409	N/A	144031	1979	REPLACEMENT	YES
1/2" CHECK VALVE	EDWARD	64 AEN	N/A	144027	1992	REPLACEMENT	YES
1/2" CHECK VALVE	EDWARD	65 AEN	N/A	144032	1992	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	C2793	N/A	144F010A	1992	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	C2794	N/A	144F010B	1992	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	C2792	N/A	144F011A	1992	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	C2795	N/A	144F011B	1992	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	A1086	N/A	144F009B	1977	REPLACEMENT	YES
1/2" GLOBE VALVE	YARWAY	A8410	N/A	144F008B	1979	REPLACEMENT	YES
LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DBC-101-1	1982	REPLACED	YES
LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DBC-101-1	1992	REPLACEMENT	NO

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

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

Date: July 6, 1992

Sheet 7 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (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 WATER CLEAN UP SYSTEM, 161B, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DBC-102-1	1982	REPLACED	YES
LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DBC102-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBC-101-1	1982	REPLACED	YES
SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBC-101-2	1982	REPLACED	YES
SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBC-101-3	1982	REPLACED	YES
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-DBC-101-3	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBC-102-5	1982	REPLACED	YES
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-DBC-102-5	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBC-102-7	1982	REPLACED	YES
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-DBC-113-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	FCI-M-195	1982	REPLACED	YES

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

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

Date: July 6, 1992

Sheet 8 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SUBASSEMBLY	PP&L	N/A	N/A	SP-XBD-104-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-XBD-106-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-XBD-108-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-XBD-111-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-XBD-112-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-CCC-103-1	1992	REPLACEMENT	NO
SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-CCC-115-1	1992	REPLACEMENT	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-101-H2	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-101-H3	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-101-H4	1982	REPLACED	NO
LARGE PIPE SUPPORT ROD & CLAMP	BECHTEL	N/A	N/A	DBC-101-H7	1982	REPLACED	NO

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

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

Date: July 6, 1992

Sheet 9 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUPPORT ROD & CLAMP	PP&L	N/A	N/A	DBC-101-H7	1992	REPLACEMENT	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-101-H8	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-101-H9	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-101-H10	1982	REPLACED	NO
LARGE PIPE SUPPORT	PP&L	N/A	N/A	DBC-101-H21	1992	REPLACEMENT	NO
LARGE PIPE SUPPORT	PP&L	N/A	N/A	DBC-101-H22	1992	REPLACEMENT	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-102-H6	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-102-H7	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-102-H10	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-102-H12	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-102-H14	1982	REPLACED	NO

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

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

Date: July 6, 1992

Sheet 10 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBC-102-H15	1982	REPLACED	NO
LARGE PIPE SUPPORT	PP&L	N/A	N/A	DBC-102-H22	1992	REPLACEMENT	NO
LARGE PIPE SUPPORT	PP&L	N/A	N/A	DBC-102-H23	1992	REPLACEMENT	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-101-H4	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-101-H5	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-101-H6	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-101-H8	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-101-H9	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-102-H5	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-102-H6	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-102-H7	1982	REPLACED	NO

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

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

Date: July 6, 1992

Sheet 11 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-102-H8	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-102-H9	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBC-102 -H10	1982	REPLACED	NO
SMALL PIPE SUPPORT	PP&L	N/A	N/A	SP-DBC-111-H1	1992	REPLACEMENT	NO
PUMP	UNION	284155	N/A	1P221A	1972	REPLACED	NO
*PUMP CASE	HAYWOOD TYLER	U12H91820	N/A	1P221A	1992	REPLACEMENT	NO
*PUMP MOTOR	HAYWOOD TYLER	U12H91820	N/A	1P221A	1992	REPLACEMENT	NO
*HEAT EXCHANGER	HAYWOOD TYLER	U12H91820	N/A	1E239A	1992	REPLACEMENT	NO
PUMP	UNION	284156	N/A	1P221B	1972	REPLACED	NO
*PUMP CASE	HAYWOOD TYLER	U12H91821	N/A	1P221B	1992	REPLACEMENT	NO
*PUMP MOTOR	HAYWOOD TYLER	U12H91821	N/A	1P221B	1992	REPLACEMENT	NO

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

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: July 6, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 12 of 14

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

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

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

Expiration Date: N/A

4. Identification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, 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 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*HEAT EXCHANGER	HAYWOOD TYLER	U12H91821	N/A	1P221B	1992	REPLACEMENT	NO
3/8" X .065 WALL TUBING	BECHTEL	N/A	N/A	JD-28-5-1C	1982	REPLACED	YES
3/8" X .065 WALL TUBING	PP&L	N/A	N/A	JD-28-5-1C	1992	REPLACEMENT	NO
3/8" X .065 WALL TUBING	BECHTEL	N/A	N/A	JD-28-5-1D	1982	REPLACED	YES
3/8" X .065 WALL TUBING	PP&L	N/A	N/A	JD-28-5-1D	1992	REPLACEMENT	NO
3/8" X .065 WALL TUBING	BECHTEL	N/A	N/A	JD-28-5-1N	1982	REPLACED	YES
3/8" X .065 WALL TUBING	PP&L	N/A	N/A	JD-28-5-1N	1992	REPLACEMENT	NO
3/8" X .065 WALL TUBING	BECHTEL	N/A	N/A	JD-28-5-1P	1982	REPLACED	YES
3/8" X .065 WALL TUBING	PP&L	N/A	N/A	JD-28-5-1P	1992	REPLACEMENT	NO

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

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

Date: July 6, 1992

Sheet 13 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

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

SECTION 5A CONT'D - CONSTRUCTION CODE

PUMPS:

DRAFT VERSION DATED NOVEMBER 1968, OF THE ASME CODE.

LARGE VALVES: (EXCEPT 144F012A)

ASME SECTION III, 1971 EDITION, THRU WINTER 72 ADDENDA; CODE CASE 1516-1 & 1534.

VALVE 144F012A:

ASME SECTION III, 1971 EDITION, THRU WINTER 72 ADDENDA; CODE CASE 1516-1 & 1567.

VALVES 2" AND UNDER:

ASME SECTION III, 1974 EDITION, THRU WINTER 74 ADDENDA

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

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

Date: July 6, 1992

Sheet 14 of 14

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

Unit: ONE

PMR 90-3035C/D * SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN UP SYSTEM, 161B, CLASS III

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

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

SECTION 8 CONT'D - TESTS CONDUCTED

WA# C14098 "A" PUMP LOCALIZED HYDROSTATIC TEST :

PUMP CASE AND PIPING	PRESSURE	1840	PSI	TEST TEMP	63.5F.
PURGE SKID PIPING	PRESSURE	1900	PSI	TEST TEMP	69 F.
HEAT EXCHANGER PIPING	PRESSURE	1860	PSI	TEST TEMP	72F.

WA# C14097 " B" PUMP LOCALIZED HYDROSTATIC TEST:

PUMP CASE AND PIPING	PRESSURE	1830	PSI	TEST TEMP	63F.
PURGE SKID PIPING	PRESSURE	1900	PSI	TEST TEMP	68.5F.
HEAT EXCHANGER PIPING	PRESSURE	1840	PSI	TEST TEMP	68F.

WA# C14100 A AND B PUMP SYSTEM TEST: (TP - 161 - 025)

SUCTION SIDE	PRESSURE	1580	PSI	TEST TEMP	72F.
DISCHARGE SIDE	PRESSURE	1840	PSI	TEST TEMP	68.4F.

WAC14103 IN SERVICE LEAK INSPECTION:

	PRESSURE	1200	PSI	TEST TEMP	484 F.

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. ET044

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 1-34708-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna 5 Mi. E Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. ~~Pump~~ Valve Identification E-T044-3-1

4"-900#-FW Gate Valev w/20" Impactor Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9123596 R/A Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1516-1, 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#V5008	SA216-WCB	CMI Quaker Alloy,	Inc.
S/N 7			
Disc HT.#T8962	SA216-WCB	CMI Quaker Alloy,	Inc.
S/N 7			
(b) Forgings			
Bonnet HT.#A115	SA105	Copperweld Steel	Company
S/N 7			

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
Gasket Retaining Ring	SA515-70	Mills Alloy Steel	Company
HT.#801A04540			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 29882

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 2/4 19 92 Signed Anchor/Darling Valve Co. By R L Stanneit
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~xxxxxxxx~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on ~~12-14-91 to~~ 2-6 19 92, 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 2-6 19 92

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 Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 — Order No. ET044
(Name & Address of Manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 — Order No. 1-34708-1
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna 5 Mi. E Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. Valve Identification E-T044-3-2

4"-900#-FW Gate Valve w/20" Impactor Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9123596 R/A — (b) Manufacturer's Serial No. Anchor/Darling Valve Co.

(c) National Board No. N/A

6. Design Conditions 2160 psi (Pressure) 100 (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III: Class 3

Edition 1971, Addenda Date Winter 1972, Code No. 1516-1, 1534

Item	Material (Spec. No.)	Manufacturer	Remarks
(a) Castings			
Body HT.#V5008 S/N 6	SA216-WCB	CMI-Quaker Alloy, Inc.	
Disc HT.#T8962 S/N 1	SA216-WCB	CMI Quaker Alloy, Inc.	
(b) Forgings			
Bonnet HT.#A115 S/N 6	SA105	Copperweld Steel Company	

Printed in U.S.A. (2/72)

(32) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

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9205020052 6

(c) Bolting: N/A

(d) Other Parts

Gasket Retaining Ring	SA515-70	Mills Alloy Steel Company
HT.#801A04540		

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Reg. State PA Reg. No. 29882-E

Stress analysis report certified by N/A (1) Prof. Reg. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date 2/4 19 92 Signed Anchor/Darling Valve Co. By R. L. Hamett

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 12-14-91 to 2-6 19 92, 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 2-6 19 92

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

Charles Young

9205052 7

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. ET044

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 1-34708-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna 5 Mi. E Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. ~~Pump~~ Valve Identification E-T044-3-3

4"-900#-FW Gate Valev w/20" Impactor Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9123596 R/A Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (Pressure) psi 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1516-1, 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#V5011	SA216-WCB	CMI Quaker Alloy,	Inc.
S/N 3			
Disc HT.#T5806	SA216-WCB	CMI Quaker Alloy,	Inc.
S/N U6178			
(b) Forgings			
Bonnet HT.#A115	SA105	Copperweld Steel	Company
S/N 3			

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
	N/A			
(d) Other Parts				
	Gasket Retaining Ring	SA515-70	Mills Alloy Steel	Company
	HT.#801A04540			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 2988

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 2/5 19 92 Signed Anchor/Darling Valve Co. (Manufacturer) By R L Stannett

Certificate of Authorization No. N1712 expires 4/15/92

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 Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 2-6 19 92, 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 2-6 19 92

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

Charles Young

FORM NPV-1 MANUFACTURER'S DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 — Order No. E1044
(Name & Address of Manufacturer)

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 — Order No. I-34708-1
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna S Mt. E., Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. Valve Identification E-T044-3-4

4"-900#-FW Gate Valve w/20" Impactor Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9123596 R/A Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (Pressure) 100 (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1516-1, 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body Ht.# V5011 S/N 2	SA216-WCB	CMI Quaker Alloy, Inc.	
Disc Ht.# T8962 S/N 5	SA216-WCB	CMI Quaker Alloy, Inc.	
(b) Forgings			
Bonnet Ht.# A115 S/N 1	SA105	Copperweld Steel Company	

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Item No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
Gasket Retaining Ring	SA515-70	Mills Alloy Steel Company	

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Company, 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. Title name only.

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

Date 2/5 19 92 Signed Anchor/Darling Valve Company R. S. Hannert (Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/92

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 12-11-91 thru 2-6 19 92, 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 2-6 19 92

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

9205050204 27

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. EB378

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th St., Allentown, PA 18101 (Name and Address) Order No. 0-11991-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant 5 Miles NE of Berwick on U.S. Rt. 11, P.O. Box 467, Berwick, PA 18603

5. Pump or Valve Identification EB378-1-1

3"-900#-Tilt Disc Check Valve

(Brief description of service for which equipment was designed)

(a) Drawing No. W9023204 R/- Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (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 1972 Case No. 1516-1, 1567

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#D9358 S/N U5623	SA216-WCB	Quaker Alloy	
Disc HT.#R6829 S/N U5614	SA216-WCB	Quaker Alloy	
(b) Forgings			
Bonnet HT.#8897880 S/N 1	SA105	LTV Steel	
Gasket Retaining Ring HT.#A090	SA105	Copperweld Steel Company	
Hinge Pin Cover HT.#AB172 S/N 1 & 2	SA105	Lenape Forge, Inc.	

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RECORD PACKAGE
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FORM NPV-1 (back)

Mark No.	Material Spec.	Manufacturer	Remarks
(c) Bolting			
Hinge Pin Cover Studs HT.#8875009	SA193	Texas Bolt Company	
Hinge Pin Cover Nuts HT.#KC8972	SA194-2H	HUB, Inc.	
(d) Other Parts			
N/A			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 29882-E

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

(1) Signature not required. List name only.

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

Date 11-27 19 90 Signed Anchor/Darling Valve Co. (Manufacturer) By R L Stonerett

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 3-27thru 11-28 19 90 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 11-28 19 90

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

Charles Young

Anchor/Darling
Valve Company · WILLIAMSPORT, PA 17701

FORM QAS-14-1 SUPPLEMENTAL DATA REPORT FOR NUCLEAR VALVES OR PARTS

1. Work performed by Anchor/Darling Valve Company RT049-1 (Shop Order No.)
701 First Street, Williamsport, PA 17701
2. Owner Pennsylvania Power & Light Co., 2 N. 9th St., Allentown, PA 18101 (Name and Address)
3. Name of Nuclear Power Plant Susquehanna Steam Electric Station
4. Address of Nuclear Power Plant P.O. Box 467, Berwick, PA 18603
5. a: Identification of Component Repaired or Replacement Component N/A
b: Name of Manufacturer (If different from Line 1) ---
c: Identifying Nos. EB378-1-1 (Mfr.'s Serial No.) ----- (Nat'l Bd. No.) ---- (Other) 1990 (Year Built)
6. Applicable Edition of Section III of ASME Code 19 71 Addenda Winter 1972 Code Case 1516-1, 1567
7. Description of Work Valve was returned for modification to graphite pressure seal gasket including re-testing of valve. Reference Drawing W9023204 Rev. A
(Use of additional sheet(s) or sketch(es) is acceptable if properly identified)

CERTIFICATE OF COMPLIANCE

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

12/11 (Date), 19 91. Our ASME Certificate of Authorization No. N1712 to use the N symbol expires 4/15/92.

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 12-10 thru 12-11 19 91 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.

No. 91-1622
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Date 12-11-91 Charles Young (Inspector) Commissions Pennsylvania 2392 (State or Providence, Nat'l Board)
Charles Young

Form QAS-14-1, Rev. -

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer)
2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 1-34708-1
3. Owner Pennsylvania Power & Light Company
4. Location of Plant Susquehanna S Mt. E Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603
5. Valve Identification E-T044-1-1

3"-900#-Tilt Disc Check Valve

(Brief description of service for which equipment was designed)

(a) Drawing No. M9023204 R/A Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (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 1972, Case No. 1516-1, 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.#T8913 S/N U6256	SA216-WCB	CMI Quaker Alloy, Inc.	
Disc HT.#51443 S/N U6175	SA216-WCB	CMI Quaker Alloy, Inc.	
(b) Forgings			
Bonnet HT.#A580 S/N 2	SA105	Copperweld Steel Company	
Gasket Retaining Ring HT.#A631 S/N 2	SA105	Copperweld Steel Company	
Hinge Pin Cover HT.#A580 S/N 3 & 4	SA105	Copperweld Steel Company	

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	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Hinge Pin Cover Studs	SA193-B7	Texas Bolt Company	
HT.#8875009			
Hinge Pin Cover Nuts	SA194-2H	Texas Bolt Company	
HT.#6014728			
(d) Other Parts			
N/A			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 29882-E

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

(1) Signature not required. List name only.

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

Date 2/6 19 92 Signed Anchor/Darling Valve Co. (Manufacturer) By R L Stammet

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 9-26-91 thru 2-7 19 92, 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 2-7 19 92

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

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. ET044

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. 1-34708-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna 5 Mi. E Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. Valve Identification E-T044-2-1

3"-900#-FW Gate Valve w/16" Impactor Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. N9123595 R/A Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (Pressure) psi 100 (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1516-1, 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT. #V5021	SA216-WCB	CMI-Quaker-Alloy, Inc.	
S/N 6			
Disc HT. # S1278	SA216-WCB	CMI Quaker Alloy, Inc.	
S/N U6177			
(b) Forgings			
Bonnet HT. #A206A	SA105	Copperweld Steel Company	
S/N 37			
Gasket Retaining Ring	SA105	Copperweld Steel Company	
HT. # A631			

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FORM NPV-1 (Back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A				
(d) Other Parts N/A				

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 29882-E

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

(1) Signature not required. List name only.

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

Date 2/6 19 92 Signed Anchor/Darling Valve Co. (Manufacturer) By R L Stannett

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 9-26-91 & 2-7 19 92, 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 2-7 19 92

Charles Young (Inspector) 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 Anchor/Darling Valve Company, 701 First Street, Williamsport, PA 17701 (Name & Address of Manufacturer) Order No. ET044

2. Manufactured for Pennsylvania Power & Light Company, 2 N. 9th Street, Allentown, PA 18101 (Name and Address) Order No. I-34708-1

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna 5 Mi. E Berwick on US Rt. 11, P.O. Box 467, Berwick, PA 18603

5. ~~RXXXX~~ Valve Identification E-T044-2-3

3"-900#-FW Gate Valve W/16" Impactor Handwheel
(Brief description of service for which equipment was designed)

(a) Drawing No. W9123595 R/A Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

6. Design Conditions 2160 (Pressure) psi 100 (Temperature)

The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971, Addenda Date Winter 1972, Case No. 1516-1, 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT.# V5017	SA216-WCB	CMI Quaker Alloy, Inc.	
S/N 1			
Disc HT.# T8921	SA216-WCB	CMI Quaker Alloy, Inc.	
S/N 1			
(b) Forgings			
Bonnet HT.# A206A	SA105	Copperweld Steel Company	
S/N 39			
Gasket Retaining Ring HT.# A631	SA105	Copperweld Steel Company	

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FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts N/A			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by R. V. Parekh (1) Prof. Eng. State PA Reg. No. 29882-E

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

(1) Signature not required. List name only.

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

Date 2/6 19 92 Signed Anchor/Darling Valve Co. (Manufacturer) By R. L. Stannett

Certificate of Authorization No. N1712 expires 4/15/92

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Pennsylvania~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 10-22-91 thru 2-7, 92, 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 2-7 19 92

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

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 01196

1. Manufactured by Yarway Corporation, Norristown & Narcissa Rds., Blue Bell, PA 19422
(Name and Address of N Certificate Holder)

2. Manufactured for Pennsylvania 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 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
(8) (1)	5615B-SA105	C2784	-	111082/None	1	-	1992
(2)		through					
(3)		C2791					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Nuclear Service Globe Valves
(Brief description of service for which equipment was designed)

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

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
NI	AMS 5385E	Southern Tool, Inc.	Disc
(b) Forgings			
E64	ASME SA105	Endicott Forging & Mfg. Co., Inc.	Body

(1) For manually operated valves only.

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

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
9210	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. I., 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. Paptzun

PE State PA Reg. No. PE-034809-E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA** have inspected the pump, or valve, described in this Data Report on FEB. 28 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

** Factory Mutual System

Date FEB. 28 19 92.

William R Rogers III (Inspector) Commissions NB7280 PA 2204 NIBSIS (Nat'l Bd., State, Prov. and No.)

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

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

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)

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
(24) (1)	5615B-SA105	C2760	-	111082/None	1	-	1992
(2)		through					
(3)		C2783					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Nuclear Service Globe Valves
(Brief description of service for which equipment was designed)

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

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

Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
G90	AMS 5385E	Southern Tool, Inc.	Disc
(b) Forgings			
E87	ASME SA105	Endicott Forging & Mfg. Co., Inc.	Body

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
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. I., Edition 1974 Addenda W1974 (Date), Code Case No. - . Date 2/28/92

Signed Yarway Corporation (N Certificate Holder) by F. W. Peszka (signature) 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. Paptzun

PE State PA Reg. No. PE-034809-E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA ** have inspected the pump, or valve, described in this Data Report on FEB. 28, 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

**Factory Mutual System

Date FEB. 28 19 92.

William R. Rogers III (Inspector) Commissions NB7980 PA2204 NIBSIS (Nat'l Bd., State, Prov. and No.)

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

As Required by the Provisions of the ASME Code Rules

RECORD COPY

P.O.# 38736

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA 19422 Order No. 05620
(Name & Address of Manufacturer)

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

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

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

5. Pump or Valve Identification NUCLEAR SERVICE LINE VALVES SIZE 1/2"

SERIAL NUMBER(S) A8337 THRU A8361
(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 Prepared by YARWAY CORPORATION

(b) National Board No. NONE

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

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

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

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C8	AMS 5385	NOVA/HOWMET CORP.	DISC
(b) Forgings	Y8	SA105	CAPE ANN TOOL CO.	BODY
	7494	SA182 Gr.F6	CARTECH CORP.	BACKSEAT BUSHING

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1/2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

298 3014

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

298 3015

RECORD COPY

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

Stress analysis report on file at NOT REQUIRED

Design specifications certified by JOHN R. SCHMIEDEL (1) Prof. Eng. State PA Reg. No. 19870E

Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date 7/6/79 19____ Signed YARWAY CORPORATION By W. A. Volger
(Manufacturer) H. A. VOLGER

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS of MUTUAL INSURANCE CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on JULY 6 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date JULY 6 19 79

N S Hewitt Commissions NB 6344 PA 2056
(Inspector) (National Board, State, Province and No.)

N. S. HEWITT

*PART OF THE FACTORY MUTUAL SYSTEM

~~298~~ ~~3015~~

298 3016

14

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

As Required by the Provisions of the ASME Code Rules

RECORD COPY

P.O.# 20237

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 52561
(Name & Address of Manufacturer)

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

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

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

5. Pump or Valve Identification NUCLEAR SERVICE LINE VALVES SIZE - 1/2"
SERIAL NUMBER (S) B6469 THRU B6479
(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 Prepared by YARWAY CORPORATION

(b) National Board No. NONE

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

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2
Edition 1974, Addenda Date WINTER 1974, Case No.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	D4	AMS 5385	NOVA/HOWMET CORPORATION	DISC
(b) Forgings	L5	SA105	CAPE ANN TOOL COMPANY	BODY
	7029	SA182 F6A	ATLAS STEELS	BACKSEAT BUSHING

298 348

BECHT 596

(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.

(21)

RECORD COPY

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

Stress analysis report on file at NOT REQUIRED

Design specifications certified by JOHN R. SCHMIEDEL (1) Prof. Eng. State PA. Reg. No. 19870E

Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date 2/19 1982 Signed YARWAY CORPORATION (Manufacturer) By W. A. Volger

W. A. VOLGER

Certificate of Authorization No. N 2449 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 of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS of MUTUAL INSURANCE CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on 2/12 1982, 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

BECHTEL 596

Date 2/19 1982

(Inspector) Commissions PA 1575 (National Board, State, Province and No.)

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

RECORD COPY

Required by the Provisions of the ASME Code Rules

P.O.# 20237

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 52561
(Name & Address of Manufacturer)

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

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

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

5. Pump or Valve Identification NUCLEAR SERVICE LINE VALVES SIZE - 1/2"

SERIAL NUMBER (S) B6454 THRU B6468
(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 Prepared by YARWAY CORPORATION

(b) National Board No. NONE

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

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

Edition 1974, Addenda Date WINTER 1974, Case No.

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	D5	AMS 5385	NOVA/HOWMET CORPORATION	DISC
(b) Forgings	L5	SA105	CAPE ANN TOOL COMPANY	BODY
	7029	SA182 F6A	ATLAS STEELS	BACKSEAT BUSHING

298 3485

(1) For manually operated valves only.

BECHTEL 596

*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.

RECORD COPY

(19)

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

Stress analysis report on file at NOT REQUIRED

Design specifications certified by JOHN R. SCHMIEDEL (1) Prof. Eng. State PA Reg. No. 19870E

Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. State ____ Reg. No. ____

(1) Signature not required. List name only.

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

Date 2/19/82 19____ Signed YARWAY CORPORATION (Manufacturer) By W. A. Volger

W. A. VOLGER

Certificate of Authorization No. N 2449 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 of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS of MUTUAL INSURANCE CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on 2/12 19 82, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

*FACTORY MUTUAL SYSTEM

Date 2/19 19 82

BECHTEL 596

(Inspector) Commissions: PA 1515 (National Board, State, Province and No.)

298 3486

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

As Required by the Provisions of the ASME Code Rules

RECORD COPY

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 05620
(Name & Address of Manufacturer)

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

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

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

5. Pump or Valve Identification NUCLEAR SERVICE LINE VALVES SIZE 1/2"

SERIAL NUMBER(S) A8387 THRU A8411

(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 Prepared by YARWAY CORPORATION

(b) National Board No. NONE

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

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2

Edition 1974, Addenda Date WINTER 1974, Case No. ---

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C8	AMS 5385	NOVA/HOWMET CORP.	DISC
(b) Forgings	Y8	SA105	CAPE ANN TOOL CO.	BODY
	7494	SA182 Gr.F6	CARTECH CORP.	BACKSEAT BUSHING

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

3/75 This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

298

3019

RECORD COPY

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	NONE			
(d) Other Parts	NONE			

6. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at BECHTEL POWER CORPORATION

Stress analysis report on file at NOT REQUIRED

Design specifications certified by JOHN R. SCHMIEDEL (1) Prof. Eng. State PA Reg. No. 19870E

Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. State ____ Reg. No. ____

(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 7/6/79 19____ Signed YARWAY CORPORATION By W. A. Volger
(Manufacturer) W. A. VOLGER

Certificate of Authorization No. N 1891 expires OCTOBER 21, 1980.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS MUTUAL INSURANCE CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on JULY 6 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JULY 6 19 79

N. S. Hewitt Commissions NB 6344 PA 2056
(Inspector) (National Board, State, Province and No.)
N. S. HEWITT

*PART OF THE FACTORY MUTUAL SYSTEM

~~2298~~ 3020

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

1. Manufactured by EDWARD VALVES INC. 1900 S. SAUNDERS ST. RALEIGH, NC 27603
(Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. P.O. BOX 467, BERWICK, PA 18603
(Name and Address of Purchaser or Owner)
3. Location of Installation SUSQUEHANNA S.E.S. BERWICK, PA 18603
(Name and Address)
4. Pump or Valve VALVE Nominal Inlet Size 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	B36274 F31LLT3	62AEN	N/A	D91-22725-01	3	N/A	1992
(2)	↓	63AEN	↓	↓	↓	↓	↓
(3)		64AEN	↓	↓	↓	↓	↓
(4)	B36274 F31LLT3	65AEN	N/A	D91-22725-01	3	N/A	1992
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 1/2" CHECK VALVE
(Brief description of service for which equipment was designed)
SO.36-22725

6. Design Conditions 1450 (Pressure) psi 800 (Temperature) °F or Valve Pressure Class 1500 (1)
7. Cold Working Pressure 2570 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
AL	A56 GR1/A732GR21	CONSOLIDATED CAST	DISK QTY 4
(b) Forgings			
STEA	SA182 GR F316L	TRINITY FORGE	BODY QTY 4
22275-201	SA479 T316L	COULTER STEEL	COVER QTY 4

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

RECEIVED APR 1/NOV

No. 92-0117
RECORD PACKAGE
PAGE 5

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(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

ITEM 1: PACKL VALVE S/N 62A6

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

9. Hydrostatic test 4500 psi. Disk Differential test pressure 3300 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974.
Addenda WINTER 1974 (Date). Code Case No. N/A. Date 1/28/92
Signed EDWARD VALVES INC. (N Certificate Holder) by [signature]
Our ASME Certificate of Authorization No. N-1562 to use the "N" (N) symbol expires 11/26/94 (Date).

CERTIFICATION OF DESIGN

Design information on file at EDWARD VALVES INC, RALEIGH, NC. 27603
Stress analysis report (Class 1 only) on file at
Design specifications certified by (1) MATTHEW HEDER JR
PE State 20118 Reg. No. PA
Stress analysis certified by (1)
PE State Reg. No.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSBI & I Co. of HARTFORD, CT have inspected the pump, or valve, described in this Data Report on 1-30 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 1-30 19 92.
[signature] (Inspector) Commissions NC 1083 (National Board, State, Province and No.)

RECORD PACKAGE PAGE 10 OF 24

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FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1

REGISTER 16252 SHOP ORDER 01200

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 1/2 (inch) Outlet Size 1/2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(8) (1)	5615B-F316	C2792 through C2799	-	111081/None	1	-	1992
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Nuclear Service Globe Valves
(Brief description of service for which equipment was designed)

6. Design Conditions - (Pressure) psi - (Temperature) °F or Valve Pressure Class 1500 (1)

7. Cold Working Pressure 3600 psi at 100°F.

Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
J91	AMS 5385E	Southern Tool, Inc.	Disc
(b) Forgings			
BC	ASME SA182 GR. F316	Cape Ann Tool Co.	Body

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
6089	ASME SA564 GR. 630	E. M. Jorgensen/ Armco Steel Corp.	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. I., 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. Paptzun
PE State PA Reg. No. PE-034809-E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA** have inspected the pump, or valve, described in this Data Report on FEB. 28 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

**Factory Mutual System

Date FEB 28 19 92.
William R. Rogers III (Inspector) Commissions NB7980 PA2204 NIBS IS (Nat'l Bd., State, Prov. and No.)

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

CORRECTED COPY** P.O. 85592

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 59052
(Name & Address of Manufacturer)

2. Manufactured for BECHTEL POWER CORPORATION Order No. 8856-P-15-A
(Name and Address)

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

4. Location of Plant 5 MILES N. E. OF BERWICK, PA. ON ROUTE 11 NORTH

5. Pump or Valve Model or Type NUCLEAR SERVICE LINE VALVES, 2" AND SMALLER

RECORD COPY

SERIAL NUMBER(S) A1086 THRU A1110

(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 REV. D** Prepared by YARWAY CORPORATION

(b) National Board No. NONE

6. Design Conditions _____ psi _____ °F or Pressure Class 1500 psi (1)
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1974, Addenda Date WINTER 1974, Case No. ----

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	A9 & B1	AMS 5382	NOVA HOWMET	DISC
(b) Forgings	R9	SA105	CAPE ANN TOOL COMPANY	BODY
	YW 794	SA182 F6	AL TECH STEEL	BACKSEAT BUSHING
			298	1547

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

3/75 This form (E00037, may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017.

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	None			
(d) Other Parts	None			

RECORD COPY

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Bechtel Power Corp.

Stress analysis report on file at Not Required

Design specifications certified by John R. Schmiedel (1) Prof. Eng. State Pa. Reg. No. 19870-E

Stress analysis report certified by Not Required (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date September 27, 19 77 Signed Yarway Corp. (Manufacturer) By W. A. Volger

W. A. Volger

Certificate of Authorization No. N899 expires October 28, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Phila. Manufacturers Mutual Ins. Co.* of Philadelphia, Pa. have inspected the equipment described in this Data Report on September 27, 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date September 27, 19 77

D. Daulbary (Inspector) Commissions NB 7525 PA 2159 (National Board, State, Province and No.)

David L. Daulbary

*Part of the Factory Mutual System

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 14, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 11

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-102-H2003	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13452-81	N/A	SP-DBA-102-H2003	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-102-H2003	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-105-H2000	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13054-80	N/A	SP-DBA-105-H2000	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-108-H1	1982	REPLACED	NO

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing 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 WA#'s C13816, C13817, C13834, C13836, C13837, C13838, C13839, C13840, C13841, C13842,
Applicable Manufacturer's Data Reports to be attached

C13843,C14118, C14119, C23012, & C23042.

CALC.#'s SR-1024, 5518-2, 5856, 5858, 5859, 5860, 5861, 5862, 5863, 5864, & 5865.

CODE CASE#'s N-122, N-319, & N-411.

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 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-12-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performe ninations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASM te, Section XI.

By signing this certificate neither the Inspector nor his employ kes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's ort. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property nge or a loss of any kind arising from or connected with this inspection.

[signature] Com ns NB 7525 PA 2159 NJ
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 1992

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: May 14, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 11

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	03870-78	N/A	SP-DBA-108-H1	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-108-H2	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-108-H2	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-108-H3	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27877-82	N/A	SP-DBA-108-H3	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-108-H4	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	10733-80	N/A	SP-DBA-108-H4	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-109-H2000	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	29173-82	N/A	SP-DBA-109-H2000	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-109-H2002	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-110-H22	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 14, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 11

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	13456-81	N/A	SP-DBA-110-H22	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-111-H3	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28810-82	N/A	SP-DBA-111-H3	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-111-H2000	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28879-82	N/A	SP-DBA-111-H2000	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H1	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H1	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H20	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	16409-80	N/A	SP-DBA-112-H20	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H21	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H21	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 14, 1992

Sheet 4 of 11

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-31081 WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-112-H24	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	18577-81	N/A	SP-DBA-112-H24	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H24	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H26	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	09945-80	N/A	SP-DBA-112-H26	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H26	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-124-H8	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	09742-79	N/A	SP-DCA-124-H8	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-124-H2005	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27972-82	N/A	SP-DCA-124-H2005	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-124-H2006	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 14, 1992

Sheet 5 of 11

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	21069-81	N/A	SP-DCA-124-H2006	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-124-H2008	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21074-81	N/A	SP-DCA-124-H2008	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H3	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22914-81	N/A	SP-DCA-129-H3	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-129-H3	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H4	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	04640-78	N/A	SP-DCA-129-H4	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-129-H4	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H7	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13140-80	N/A	SP-DCA-129-H7	1980	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 14, 1992

Sheet 6 of 11

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	SP-DCA-129-H7	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H8	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	04072-78	N/A	SP-DCA-129-H8	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H2002	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27949-82	N/A	SP-DCA-129-H2002	1982	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-129-H2002	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H2007	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23355-81	N/A	SP-DCA-129-H2007	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-129-H2011	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	04684-78	N/A	SP-DCA-129-H2011	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-129-H2011	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 14, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 7 of 11

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-129-H2014	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13934-81	N/A	SP-DCA-129-H2014	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H1	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-130-H1	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H2	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23358-81	N/A	SP-DCA-130-H2	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H29	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23548-81	N/A	SP-DCA-130-H29	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-130-H29	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H33	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28939-82	N/A	SP-DCA-130-H33	1982	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 14, 1992

Sheet 8 of 11

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	SP-DCA-130-H33	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H35	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-130-H35	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H36	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	06273-78	N/A	SP-DCA-130-H36	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H38	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28865-82	N/A	SP-DCA-130-H38	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H2000	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22892-81	N/A	SP-DCA-130-H2000	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H2001	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13463-81	N/A	SP-DCA-130-H2001	1981	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: Pennsylvania Power & Light Co. (Name) — Date: May 14, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 9 of 11

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-130-H2002	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28884-82	N/A	SP-DCA-130-H2002	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H2003	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28916-82	N/A	SP-DCA-130-H2003	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H2004	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22917-81	N/A	SP-DCA-130-H2004	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H2	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27967-82	N/A	SP-DCA-132-H2	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H23	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	06278-78	N/A	SP-DCA-132-H23	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H24	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 14, 1992

Sheet 10 of 11

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	28917-82	N/A	SP-DCA-132-H24	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H2002	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22879-81	N/A	SP-DCA-132-H2002	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H2003	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21124-81	N/A	SP-DCA-132-H2003	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-130-H2007	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21091-81	N/A	SP-DCA-132-H2007	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H2008	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28813-82	N/A	SP-DCA-132-H2008	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H2010	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	06276-78	N/A	SP-DCA-132-H2010	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 14, 1992

Sheet 11 of 11

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-132-H2011	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	16429-80	N/A	SP-DCA-132-H2011	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-132-H2013	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	14347-80	N/A	SP-DCA-132-H2013	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H152	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-127-H152	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 11 MAY, 1992

Sheet 1 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	MST-022-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03175-78	N/A	MST-022-H15	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H40	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03374-78	N/A	MST-022-H40	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H45	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04117-79	N/A	MST-022-H45	1979	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 WA #'s C13844, C13846, C14121, C14123, C14125, C14127, C13817, C14119, C14118,
Applicable Manufacturer's Data Reports to be attached

C23012, & C23213.

CALC. #'s SR 951-1, 951-2, 952, 953, & 1024; AND CALC. # EL-C-SNU-076.

CODE CASE #'s N-122, N-319, & N-411

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 16, 19 92
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-12-92 to 4-30-92, 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 PA 2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 22 19 92

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: 11 MAY, 1992

Sheet 2 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DBA-102-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02760-78	N/A	DBA-102-H8	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-102-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04115-79B	N/A	DBA-102-H9	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-102-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02561-78	N/A	DBA-102-H11	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-102-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04106-79	N/A	DBA-102-H13	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-105-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04616-78	N/A	DBA-105-H8	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-105-H9	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 11 MAY, 1992

Sheet 3 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79. Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	14775-83	N/A	DBA-105-H9	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-105-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02160-77	N/A	DBA-105-H10	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03634-78	N/A	MST-022-H13	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H14	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03266-78	N/A	MST-022-H14	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H18	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00123-76	N/A	MST-022-H18	1976	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H21	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01801-83	N/A	MST-022-H21	1983	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: Pennsylvania Power & Light Co. (Name) — Date: 11 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 7

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79. Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	MST-022-H25	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04102-79	N/A	MST-022-H25	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H26	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03179-78	N/A	MST-022-H26	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H28	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04118-79	N/A	MST-022-H28	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H49	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03376-78	N/A	MST-022-H49	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H33	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02414-90	N/A	MST-022-H33	1990	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H34	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 11 MAY, 1992

Sheet 5 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79. Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	01332-82	N/A	MST-022-H34	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H46	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03375-78	N/A	MST-022-H46	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H7	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04606-78	N/A	DBA-108-H10	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06588-78	N/A	DBA-108-H12	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06796-78	N/A	DBA-108-H15	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H21	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 11 MAY, 1992

Sheet 6 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	23020-81	N/A	DBA-108-H21	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H6	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06584-78	N/A	DBA-108-H6	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DBA-108-H6	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04282-78	N/A	DBA-108-H8	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DBA-108-H8	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04277-78	N/A	DBA-108-H9	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DBA-108-H9	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H17	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 11 MAY, 1992

Sheet 7 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I, WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	MST-022-H17	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H20	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	MST-022-H20	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	MST-022-H31	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	MST-022-H31	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-102-H5	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DBA-102-H5	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 1 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-111-H28	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	19548-81	N/A	DCA-111-H28	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H25	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04587--78	N/A	DCA-111-H25	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H26	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04589-78	N/A	DCA-111-H26	1978	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT UNIT 1

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 WA C31813, WA C13814, WA C13815, WA C14128, WA C14145, WA C14168, WA C14169,
Applicable Manufacturer's Data Reports to be attached

WA C14170, WA C14171, WA C14172, WA C23169

CALCULATIONS: SR-885, & SR-5518-1

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 S. C. Slad Date July 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-10-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NB 7525 PA 2159 NI
National Board, State, Province, and Endorsements

Date July 22 1992

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: May 12, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 14

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3108L / SEE REMARKS FOR WA Nos. (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-111-H21	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02501-77	N/A	DCA-111-H21	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H22	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02545-77	N/A	DCA-111-H22	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H41	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00935-77	N/A	DCA-111-H41	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H18	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12946-82	N/A	DCA-111-H18	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H19	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02534-77	N/A	DCA-111-H19	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H16	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 12, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 14

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3108L / SEE REMARKS FOR WA Nos. (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	02542-77	N/A	DCA-111-H16	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H17	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13425-82	N/A	DCA-111-H17	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02820-77	N/A	DCA-111-H15	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04990-78	N/A	(A)SP-DBA-112-H15	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	04988-78	N/AN/A	(B)SP-DBA-112-H15	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H29	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04991-78	N/A	SP-DBA-112-H29	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H18	1990	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 4 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	23387-83	N/A	SP-DBA-112-H18	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H31	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09923-80	N/A	SP-DBA-112-H31	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H33	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12178-80	N/A	SP-DBA-112-H33	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H36	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	05014-78	N/A	SP-DBA-112-H36	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H35	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06842-78	N/A	SP-DBA-112-H35	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H34	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	07227-79	N/A	SP-DBA-112-H34	1979	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 5 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-112-H37	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06843-78	N/A	SP-DBA-112-H37	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H39	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28923-82	N/A	SP-DBA-112-H39	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H40	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	05015-78	N/A	SP-DBA-112-H40	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H42	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	05016-78	N/A	SP-DBA-112-H42	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H43	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06844-78	N/A	SP-DBA-112-H43	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H45	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 6 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	02223-77	N/A	SP-DBA-112-H45	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-145-H17	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06668-79	N/A	SP-DCA-145-H17	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-145-H18	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13063-80	N/A	SP-DCA-145-H18	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H55	1985	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27944-82	N/A	SP-DCA-145-H55	1982	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H56	1985	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27948-82	N/A	SP-DCA-145-H56	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	10725-80	N/A	SP-DBA-112-H5	1980	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 7 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-112-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12179-80	N/A	SP-DBA-112-H2	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H2000	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	18551-81	N/A	SP-DBA-112-H2000	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09925-80	N/A	SP-DBA-112-H12	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-JBD-188-H12	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	19503-81	N/A	SP-JBD-188-H12	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H67	1985	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H5	1985	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14328-80	N/A	SP-DCA-145-H5	1980	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: Pennsylvania Power & Light Co. (Name) — Date: May 12, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 8 of 14

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-112-H13	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H13	1992	REPLACEMENT	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H23	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04585-78	N/A	DCA-111-H23	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H23	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H20	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02477-77	N/A	DCA-111-H20	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H20	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H36	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06800-78	N/A	DCA-111-H36	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H36	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 9 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-111-H24	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04586-78	N/A	DCA-111-H24	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H24	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H38	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02499-77	N/A	(A) DCA-111-H38	1977	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	19559-81	N/A	(B) DCA-111-H38	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H38	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H4	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H4	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H33	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H33	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 10 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-111-H6	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H6	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H37	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01164-77	N/A	DCA-111-H37(B)	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H37	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H7	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H7	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H28	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09922-80	N/A	SP-DBA-112-H28	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H28	1992	REPLACEMENT	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04991-78	N/A	SP-DBA-112-H28	1978	REPLACEMENT	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 11 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-112-H46	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06845-78	N/A	SP-DBA-112-H46	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H46	1992	REPLACEMENT	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	21572-82	N/A	SP-DBA-112-H46	1982	REPLACEMENT	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-145-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09730-79	N/A	SP-DCA-145-H13	1979	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H13	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H16	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H16	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03656-77	N/A	(A) DCA-111-H8	1977	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992
Sheet 12 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE
PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	25283-82	N/A	(B) DCA-111-H8	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	19484-81	N/A	DCA-111-H9	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H9	1992	REPLACEMENT	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01164-77	N/A	DCA-111-H9	1977	REPLACEMENT	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H14	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H14	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-145-H10	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H10	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-145-H58	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-145-H58	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 13 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-111-H39	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06807-78	N/A	(A) DCA-111-H39	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	06806-78	N/A	(B) DCA-111-H39	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H39	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H2	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H2	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-111-H40	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-111-H40	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H41	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01047-77	N/A	SP-DBA-112-H41	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H41	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 12, 1992

Sheet 14 of 14

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

PMR 90-3108L / SEE REMARKS FOR WA Nos. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	14386-82	N/A	SP-DBA-112-H41	1982	REPLACEMENT	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H50	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-112-H50	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 5 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 4

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108J, WA C13807, C13808, C23220 (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S 79 Addenda, N-411 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DLA-104-H11	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DLA-104-H11	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-102-H6	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01794-83	N/A	DLA-102-H6	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-102-H7	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03061-78	N/A	DLA-102-H7	1978	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 INCLUDES PIPING CALC. # SR-876 & SR-880

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 S Y Mal Date July 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-9-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions NB 7525 PA 2159 NJ

National Board, State, Province, and Endorsements

Date July 22 19 92

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: 5 MAY, 1992

Sheet 2 of 4

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108J, WA C13807, C13808, C23220 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S 79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DLA-102-H8A	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01618-82	N/A	DLA-102-H8A	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-102-H9B	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00796-77	N/A	DLA-102-H9B	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-102-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09486-82	N/A	DLA-102-H10	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-102-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01172-77	N/A	DLA-102-H13	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-102-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01096-81B	N/A	DLA-102-H15	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H5	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 5 MAY, 1992

Sheet 3 of 4

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108J, WA C13807, C13808, C23220 (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S 79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	06937-80	N/A	DLA-104-H5	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H7	1982	REPLACED	N0
MECH. SNUBBER	PACIFIC SCIENTIFIC	03636-78	N/A	DLA-104-H7	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H8A	1982	REPLACED	N0
MECH. SNUBBER	PACIFIC SCIENTIFIC	02395-89	N/A	DLA-104-H8A	1989	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H9B	1982	REPLACED	N0
MECH. SNUBBER	PACIFIC SCIENTIFIC	01182-77	N/A	DLA-104-H9B	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H10	1982	REPLACED	N0
MECH. SNUBBER	PACIFIC SCIENTIFIC	02849-78	N/A	DLA-104-H10	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H12	1982	REPLACED	N0
PIPE SUPPORT	PP&L	N/A	N/A	DLA-104-H12	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 5 MAY, 1992

Sheet 4 of 4

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108J, WA C13807, C13808, C23220 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S 79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DLA-104-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01187-77	N/A	DLA-104-H13	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DLA-104-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02030-83	N/A	DLA-104-H15	1983	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 6, 1992
Sheet 1 of 5

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
90-3108K / SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S"79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-138-H2001	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22981-81	N/A	SP-DCA-138-H2001	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-140-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28737-82	N/A	SP-DCA-140-H16	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-140-H18	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22982-81	N/A	SP-DCA-140-H18	1981	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 Snubber reduction per Calcs SR-5487, SR-5488, SR-5510, SR-5511, SR-5512, SR-5513, SR-5971
Applicable Manufacturer's Data Reports to be attached

WA C13803, WA C13804, WA C13805, WA C13806, WA C23171, & WA C23199

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 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-10-92 to 4-30-92, 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 PA 2159 NJ
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 1992

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: May 6, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 5

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — 90-3108K / SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S"79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-137-H6	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16413-80	N/A	SP-DCA-137-H6	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28746-82	N/A	SP-DCA-137-H5	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H4	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28857-82	N/A	SP-DCA-137-H4	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H10	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H13	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-137-H13	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H20	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23552-81	N/A	SP-DCA-137-H20	1981	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 6, 1992

Sheet 3 of 5

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

90-3108K / SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-137-H19	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28738-82	N/A	SP-DCA-137-H19	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	21110-81	N/A	SP-DCA-137-H16	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-140-H14	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27856-82	N/A	SP-DCA-140-H14	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-140-H2000	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	21141-81	N/A	SP-DCA-140-H2000	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16439-80	N/A	SP-DCA-138-H2	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H4	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 6, 1992

Sheet 4 of 5

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

90-3108K / SEE REMARKS (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 VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	28728-82	N/A	SP-DCA-138-H4	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H21	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28720-82	N/A	SP-DCA-138-H21	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H22	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	29019-82	N/A	SP-DCA-138-H22	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H23	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06259-78	N/A	SP-DCA-138-H23	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H2003	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23012-81	N/A	SP-DCA-138-H2003	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H24	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06319-78	N/A	SP-DCA-138-H24	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 6, 1992

Sheet 5 of 5

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

90-3108K / SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS I

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-138-H25	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27960-82	N/A	SP-DCA-138-H25	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H14	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28788-82	N/A	SP-DCA-138-H14	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28860-82	N/A	SP-DCA-138-H15	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-138-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27970-82	N/A	SP-DCA-138-H16	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-137-H22	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-137-H22	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 6, 1992

Sheet 1 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

90-3108K / WA C13802, WA C13803, WA C23172 (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 VESSEL SYSTEM 162A CLASS II

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCB-112-H2046	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16423-80	N/A	SP-DCB-112-H2046	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H2048	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04208-78	N/A	SP-DCB-112-H2048	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H50	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06241-78	N/A	SP-DCB-112-H50	1978	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 Snubber reduction per Calculations SR-5961, SR-5962 and SR-5971

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date July 20, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 1-10-92 to 4-30-92, 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 PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 1992

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 6, 1992

Sheet 2 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

90-3108K / WA C13802, WA C13803, WA C23172 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS II

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCB-112-H2071	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22911-81	N/A	SP-DCB-112-H2071	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H2044	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23584-81	N/A	SP-DCB-112-H2044	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H2041	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	10906-79	N/A	SP-DCB-112-H2041	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H2075	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22910-81	N/A	SP-DCB-112-H2075	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H2026	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13098-80	N/A	SP-DCB-112-H2026	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-112-H28	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 17, 1992

Sheet 3 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

90-3108K / WA C13802, WA C13803, WA C23172 Repair Organization P.O. No., Job No., etc.

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR VESSEL SYSTEM 162A CLASS II

5. (a) Applicable Construction III 19 77 Edition, thru S'79 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	SP-DCB-112-H28	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: June 3, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3092 WA C13848 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRC SYSTEM 164B CLASS I

5. (a) Applicable Construction Code: III 19 71 Edition, thru W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 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)
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-150-H2010	1982	REPLACED	NO
VALVE	BORG WARNER	19478	N/A	1FO27B	1976	REPLACED	YES
VALVE	BORG WARNER	19463	N/A	1FO28B	1976	REPLACED	YES
PIPE CAP	PP&L	N/A	N/A	SP-DCA-150-1	1992	REPLACEMENT	NO

7. Description of Work: ELIMINATE DRAIN VALVES AND SUPPORT

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] SE-100-002

Other [ ] Pressure 1023 psi Test Temp. 155 °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 [signature] Date July 16, 1992

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 11-17-91 to 4-16-92, 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 PA 2159 NI

Inspector's Signature National Board, State, Province, and Endorsements

Date July 22, 1992

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 May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-118-H27	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23046	N/A	SP-DCA-118-H27	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-118-H31	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16379	N/A	SP-DCA-118-H31	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-118-H2011	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27975	N/A	SP-DCA-118-H2011	1982	REPLACED	N/A

7. Description of Work REMOVE SNUBBER / NO REPLACEMENT--MODIFY SUPPORTS

8. Tests Conducted: ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing 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.

(12/82) This form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N. Y. 10017

FORM NIS-2 (Back)

9. Remarks Applicable Construction Codes:for Snubbers - ASME III 1977 Edition thru Summer 1979 Addenda.

CODE CASE N-411 & N-122.

WA C13904, C13906, C13907, C13910, C13913, C13914

CALC. # SR-5801, SR-5585, SR-5586,SR-5483, SR-5485, SR-5496, SR-5808, SR-950A, SR-950B

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 SYSlad Date July 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-27-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NB 7525 PA 2159

National Board, State, Province, and Endorsements

Date July 22 19 92

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 2 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-119-H31	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06239	N/A	SP-DCA-119-H31	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2000	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06246	N/A	SP-DCA-119-H2000	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2003	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28765	N/A	SP-DCA-119-H2003	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2004	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22938	N/A	SP-DCA-119-H2004	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2005	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22961	N/A	SP-DCA-119-H2005	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2009	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 21, 1992
Sheet 3 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Type Code Symbol: None
Authorization: N/A
Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction: see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	22927	N/A	SP-DCA-119-H2009	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2011	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13923	N/A	SP-DCA-119-H2011	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-119-H2012	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14374	N/A	SP-DCA-119-H2012	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-121-H24	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	27840	N/A	SP-DCA-121-H24	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-121-H35	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06310	N/A	SP-DCA-121-H35	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-121-H36	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22951	N/A	SP-DCA-121-H36	1981	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 Pennsylvania Power & Light Co. (Name) — Date May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, ____ Addenda, ____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-121-H2014	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09940	N/A	SP-DCA-121-H2014	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-121-H2016	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13960	N/A	SP-DCA-121-H2016	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-116-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06326	N/A	SP-DCA-116-H1	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-116-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	05132	N/A	SP-DCA-116-H2	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-116-H6	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23353	N/A	SP-DCA-116-H6	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-116-H2001	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ .Edition, _____ Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	29015	N/A	SP-DCA-116-H2001	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-116-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13469	N/A	SP-DCA-116-H5	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-116-H5	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-117-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28019	N/A	SP-DCA-117-H2	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-117-H13	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	18830	N/A	SP-DCA-117-H13	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-117-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04104	N/A	SP-DCA-117-H16	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-117-H2003	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 6 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	13965	N/A	SP-DCA-117-H2003	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-117-H2004	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09937	N/A	SP-DCA-117-H2004	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-117-H5	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-117-H5	1992	REPLACEMENT	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-108-H2013	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04657	N/A	SP-DCA-108-H2013	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-108-H2014	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04618	N/A	SP-DCA-108-H2014	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H63	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	35514	N/A	SP-DCA-126-H63	1983	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 Pennsylvania Power & Light Co. (Name) — Date May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 7 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, _____ Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-126-H64	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16416	N/A	SP-DCA-126-H64	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H73	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16424	N/A	SP-DCA-126-H73	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H74	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16425	N/A	SP-DCA-126-H74	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H83	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	10942	N/A	SP-DCA-126-H83	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2008	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16427	N/A	SP-DCA-126-H2008	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2010	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 8 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, _____ Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	16384	N/A	SP-DCA-126-H2010	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2011	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16417	N/A	SP-DCA-126-H2011	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2012	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28856	N/A	SP-DCA-126-H2012	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2013	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	16419	N/A	SP-DCA-126-H2013	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2014	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13116	N/A	SP-DCA-126-H2014	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2021	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13099	N/A	SP-DCA-126-H2021	1980	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

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2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction Code see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-126-H2034	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13433	N/A	SP-DCA-126-H2034	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H2035	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22875	N/A	SP-DCA-126-H2035	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-126-H71	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-126-H71	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-102-H14	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	18588	N/A	SP-DCA-102-H14A	1981	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	02414	N/A	SP-DCA-102-H14B	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-102-H19	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12947	N/A	SP-DCA-102-H19	1982	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Date: May 21, 1992
Sheet 10 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)
Unit: ONE
DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)
Type Code Symbol: None
Authorization: N/A
Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-102-H22	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	19563	N/A	SP-DCA-102-H22	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-102-H6	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03649	N/A	DCA-102-H6	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-102-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04569	N/A	DCA-102-H9A	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	06799	N/A	DCA-102-H9B	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-141-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04268	N/A	DCA-141-H1	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-141-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04609	N/A	DCA-141-H2	1978	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: Pennsylvania Power & Light Co. (Name) — Date: May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 11 of 20

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-141-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12943	N/A	DCA-141-H3	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-141-H4	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04279	N/A	DCA-141-H4	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03173	N/A	RWS-100-H1	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03289	N/A	RWS-100-H2	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04112	N/A	RWS-100-H5	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H6	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 12 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900,
SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction: see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	03725	N/A	RWS-100-H6	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03369	N/A	RWS-100-H11	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H15	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04114	N/A	RWS-100-H15	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H16	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03720	N/A	RWS-100-H16	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H19	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03709	N/A	RWS-100-H19	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H20	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03761	N/A	RWS-100-H20	1978	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: Pennsylvania Power & Light Co. (Name) — Date: May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 13 of 20

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	RWS-100-H21	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03711	N/A	RWS-100-H21	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H22	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	10539	N/A	RWS-100-H22	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H27	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03172	N/A	RWS-100-H27A	1981	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	08607	N/A	RWS-100-H27B	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H39	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03639	N/A	RWS-100-H39	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H29	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	RWS-100-H29	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 14 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, ____ Addenda, ____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	RWS-100-H30	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	RWS-100-H30	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H34	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	RWS-100-H34	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-102-H17	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-102-H17	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H31	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	RWS-100-H31	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H35	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	RWS-100-H35	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-102-H2002	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 15 of 20

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	SP-DCA-102-H2002	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-102-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06818	N/A	DCA-102-H2A	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DCA-102-H2	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-102-H4	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06797	N/A	DCA-102-H4A	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	25302	N/A	DCA-102-H4B	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-108-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00574	N/A	DCA-108-H8	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-108-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00399	N/A	DCA-108-H9	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 16 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-142-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	12276	N/A	DCA-142-H1	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-142-H2	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04264	N/A	DCA-142-H2	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-142-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	08696	N/A	DCA-142-H3	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-142-H4	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04281	N/A	DCA-142-H4	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-102-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	21566	N/A	SP-DCA-102-H11A	1982	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	21572	N/A	SP-DCA-102-H11B	1982	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 17 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-102-H2000	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	18585	N/A	SP-DCA-102-H2000A	1981	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	18582	N/A	SP-DCA-102-H2000B	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03367	N/A	RWS-100-H3	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H4	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03368	N/A	RWS-100-H4	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H7	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03718	N/A	RWS-100-H7	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03760	N/A	RWS-100-H8	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992

Sheet 18 of 20

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	RWS-100-H9	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03638	N/A	RWS-100-H9	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03189	N/A	RWS-100-H10	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H14	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04111	N/A	RWS-100-H14	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H17	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	11028	N/A	RWS-100-H17	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H18	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03762	N/A	RWS-100-H18	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H23	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner. Pennsylvania Power & Light Co. (Name) — Date May 21, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 19 of 20

2. Plant Susquehanna Steam Electric Station (Name) — Unit ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization N/A

Expiration Date N/A

4. Indentification of System REACTOR RECIRCULATION SYSTEM 164B CLASS I

5. (a) Applicable Construction see remarks 19 ____ Edition, _____ Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 thru W'80 19

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	02670	N/A	RWS-100-H23	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H24	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03724	N/A	RWS-100-H24	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H28	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03248	N/A	RWS-100-H28A	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	02591	N/A	RWS-100-H28B	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H37	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03641	N/A	RWS-100-H37	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H36	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	RWS-100-H36	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	RWS-100-H38	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: Pennsylvania Power & Light Co. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 21, 1992
Sheet 20 of 20
Unit: ONE
DCP 90-3108F WA C13898, C13899, C13900, SEE REMARKS (Repair Organization P.O. No., Job No., etc.)
Type Code Symbol: None
Authorization: N/A
Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 164B CLASS I
5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 80 thru W'80 19
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	RWS-100-H38	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DCA-108-H2	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	DCA-108-H2	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-102-H2001	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-102-H2001	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 1 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCB-106-H20	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	29316	N/A	SP-DCB-106-H20	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-106-H21	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22905	N/A	SP-DCB-106-H21	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-106-H2013	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	23588	N/A	SP-DCB-106-H2013	1981	REPLACED	N/A

7. Description of Work: Remove Snubber / No Replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing Required
Other ☐ Pressure ____ psi Test Temp. ____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Applicable Construction Codes:for Snubbers - ASME III 1977 Edition thru Summer 1979

CODE CASE N-411 & N-122.

CALC. SR-5947-1, SR-5507, SR-5529, SR-5948-1

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 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-26-92 to 4-30-92, 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 PA 2159 NI

Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 19 92

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 2 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCB-106-H2014	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13047	N/A	SP-DCB-106-H2014	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-106-H2018	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28792	N/A	SP-DCB-106-H2018	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-106-H2020	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	05056	N/A	SP-DCB-106-H2020	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-106-H2027	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22934	N/A	SP-DCB-106-H2027	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-106-H2028	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14373	N/A	SP-DCB-106-H2028	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H3	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 3 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	14361	N/A	SP-DCB-105-H3	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H5	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14362	N/A	SP-DCB-105-H5	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H8	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14363	N/A	SP-DCB-105-H8	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13131	N/A	SP-DCB-105-H10	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H11	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14370	N/A	SP-DCB-105-H11A	1980	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	14367	N/A	SP-DCB-105-H11B	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H12	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 4 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	14368	N/A	SP-DCB-105-H12	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H2000	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	28859	N/A	SP-DCB-105-H2000	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H2001	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	21088	N/A	SP-DCB-105-H2001	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H2003	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14365	N/A	SP-DCB-105-H2003	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H2006	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22903	N/A	SP-DCB-105-H2006	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HBD-105-H2000	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14366	N/A	SP-HBD-105-H2000	1980	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 5 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCB-106-H2025	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCB-106-H2025	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-105-H9	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCB-105-H9	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-120-H2007	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCB-120-H2007	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-120-H2001	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06321	N/A	SP-DCB-120-H2001	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-120-H2002	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	13957	N/A	SP-DCB-120-H2002	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-120-H2003	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 6 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	14409	N/A	SP-DCB-120-H2003	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-120-H2008	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14410	N/A	SP-DCB-120-H2008	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-121-H2002	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCB-121-H2002	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-121-H10	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14415	N/A	SP-DCB-121-H10	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-121-H2001	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14329	N/A	SP-DCB-121-H2001	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-121-H2003	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14330	N/A	SP-DCB-121-H2003	1980	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 19, 1992

Sheet 7 of 7

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108F WA C13901, C13902, C13911, C13912 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Reactor Recirculation System 164D Class I

5. (a) Applicable Construction Code: see remark 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCB-121-H2008	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	22941	N/A	SP-DCB-121-H2008	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCB-121-H2009	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00120	N/A	SP-DCB-121-H2009	1977	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: Pennsylvania Power & Light Co. (Name) — Date: May 18, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108F, WA C13896 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR RECIRCULATION SYSTEM 173A CLASS II

5. (a) Applicable Construction Code: see remarks 19 ____ Edition, ____ Addenda, ____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-HCB-138-H4	1982	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-HCB-138-H4	1992	REPLACEMENT	N/A

7. Description of Work: ADD STIFFNERS TO EXISTING SUPPORT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing Required
Other ☐ Pressure ____ psi Test Temp. ____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Applicable Construction Codes: For Pipe Supports -ASME III 1971 Edition thru Winter 1972
Applicable Manufacturer's Data Reports to be attached

Addenda: for Snubbers - ASME III 1977 Edition thru Summer 1979 Addenda. Code Case N-411 & N122

CALC. SR-1042

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 S K Hall Date July 16, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 3-10-92 to 4-30-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NB 7525 PA 2159 NI
National Board, State, Province, and Endorsements

Date July 22 1992

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: 11 MAY, 1992
Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE
DCP 90-3108I; WA #'s C13817 & C14119 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A

4. Identification of System: MAIN STEAM SYSTEM 183A CLASS 1

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DBA-108-H4	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H1	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06573-78	N/A	DBA-108-H1	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DBA-108-H1	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H3	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06574-78	N/A	DBA-108-H3	1978	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 CALC. # SR-1024

Applicable Manufacturer's Data Reports to be attached

CODE CASE #'s N-122, N-319, & N-411

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 16, 19 92

Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-13-92 to 4-30-92, 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 PA 2159 NI

Inspector's Signature National Board, State, Province, and Endorsements

Date JUL 22 19 92

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: 11 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s C13817 & C14119 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM SYSTEM 183A CLASS 1

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	DBA-108-H3	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	DBA-108-H19	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03483-77	N/A	DBA-108-H19	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	DBA-108-H19	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 1 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-119-H1	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-119-H3	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28886-82	N/A	SP-DBA-119-H3	1982	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DBA-119-H3	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-119-H4	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13070-80	N/A	SP-DBA-119-H4	1980	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ No Testing 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 WA#'s C13818, C13819, C13820, C13821, C13822, C13823, C13824, C13825, C13826, C13827,
Applicable Manufacturer's Data Reports to be attached

C13828, C13829, C13830, C13831, C13832, C13833, C23012, & C23213.

CALC#'sSR5696S,5696,5697S,5697,5698S,5698,5699S,5699,5700S,5700,5701S,5701,5702S,5702,5703S

5704S,5705S,5705,5706S,5706,5707S,5707,5708S,5708,5709S,5709,5710S,5710,5711S,&5711.

CODE CASE#'s N-122, N-319, & N-411.

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 21, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-11-92 to 4-30-92, 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 PA 2159 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 19 92

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 2 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DBA-119-H2000	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27946-82	N/A	SP-DBA-119-H2000	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-120-H5	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	10952-79	N/A	SP-DBA-120-H5	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-120-H2000	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27866-82	N/A	SP-DBA-120-H2000	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-120-H2003	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC	17235-83	N/A	SP-DBA-120-H2003	1983	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H47	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	10914-79	N/A	SP-DCA-127-H47	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H51	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 3 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	05130-78	N/A	SP-DCA-127-H51	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H61	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27978-82	N/A	SP-DCA-127-H61	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H62	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23591-81	N/A	SP-DCA-127-H62	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H66	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21132-81	N/A	SP-DCA-127-H66	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H92	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	04088-78	N/A	SP-DCA-127-H92	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H93	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	04080-78	N/A	SP-DCA-127-H93	1978	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: Pennsylvania Power & Light Co. (Name) — Date: May 26, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 17

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-127-H146	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28864-82	N/A	SP-DCA-127-H146	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H148	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13057-80	N/A	SP-DCA-127-H148	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H151	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	10904-79	N/A	SP-DCA-127-H151	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H154	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27966-82	N/A	SP-DCA-127-H154	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H155	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13105-80	N/A	SP-DCA-127-H155	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H158	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 15, 1992

Sheet 5 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	13437-81	N/A	SP-DCA-127-H158	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H162	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27859-82	N/A	SP-DCA-127-H162	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H172	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	09735-79	N/A	SP-DCA-127-H172	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H174	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13061-80	N/A	SP-DCA-127-H174	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H175	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13062-80	N/A	SP-DCA-127-H175	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H178	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28977-82	N/A	SP-DCA-127-H178	1982	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 6 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-127-H2010	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13938-81	N/A	SP-DCA-127-H2010	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2012	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27861-82	N/A	SP-DCA-127-H2012	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2015	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21127-81	N/A	SP-DCA-127-H2015	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2036	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13092-80	N/A	SP-DCA-127-H2036	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2045	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13094-80	N/A	SP-DCA-127-H2045	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2047	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 7 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	16387-80	N/A	SP-DCA-127-H2047	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2051	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13091-80	N/A	SP-DCA-127-H2051	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2054	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22940-81	N/A	SP-DCA-127-H2054	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-127-H2054	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2056	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13065-80	N/A	SP-DCA-127-H2056	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-127-H2056	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2057	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2058	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 8 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	13066-80	N/A	SP-DCA-127-H2058	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-127-H2058	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2065	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13101-80	N/A	SP-DCA-127-H2065	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2070	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27950-82	N/A	SP-DCA-127-H2070	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2075	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22906-81	N/A	SP-DCA-127-H2075	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2076	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	06244-78	N/A	SP-DCA-127-H2076	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2078	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

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2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	22928-81	N/A	SP-DCA-127-H2078	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2079	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22929-81	N/A	SP-DCA-127-H2079	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2082	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13434-81	N/A	SP-DCA-127-H2082	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2083	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2084	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27855-82	N/A	SP-DCA-127-H2084	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2085	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	05082-78	N/A	SP-DCA-127-H2085	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2092	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 10 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	28747-82	N/A	SP-DCA-127-H2092	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2088	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22872-81	N/A	SP-DCA-127-H2088	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2094	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28747-82	N/A	SP-DCA-127-H2094	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2100	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13141-80	N/A	SP-DCA-127-H2100	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2101	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22986-81	N/A	SP-DCA-127-H2101	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2104	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22899-81	N/A	SP-DCA-127-H2104	1981	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: Pennsylvania Power & Light Co. (Name) — Date: May 26, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 11 of 17

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-127-H2105	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22900-81	N/A	SP-DCA-127-H2105	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2106	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	21153-81	N/A	SP-DCA-127-H2106	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2109	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	09722-79	N/A	SP-DCA-127-H2109	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-127-H2112	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27861-82	N/A	SP-DCA-127-H2112	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H50	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23544-81	N/A	SP-DCA-128-H50	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H84	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 12 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	10934-79	N/A	SP-DCA-128-H84	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H86	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	10935-79	N/A	SP-DCA-128-H86	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H96	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13055-80	N/A	SP-DCA-128-H96	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H97	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	06307-78	N/A	SP-DCA-128-H97	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H98	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	06301-78	N/A	SP-DCA-128-H98	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H110	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	10937-79	N/A	SP-DCA-128-H110	1979	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 13 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	SP-DCA-128-H114	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28812-82	N/A	SP-DCA-128-H114	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H116	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-128-H116	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H117	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	29319-82	N/A	SP-DCA-128-H117	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H124-	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28881-82	N/A	SP-DCA-128-H124	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H125	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27854-82	N/A	SP-DCA-128-H125	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H130	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 14 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80 III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	05161-78	N/A	SP-DCA-128-H130	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-128-H130	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H131	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13103-80	N/A	SP-DCA-128-H131	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H136	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27922-82	N/A	SP-DCA-128-H136	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2016	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	27965-82	N/A	SP-DCA-128-H2016	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2018	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	14425-80	N/A	SP-DCA-128-H2018	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2019	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 15 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	14344-80	N/A	SP-DCA-128-H2019	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-128-H2019	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2023	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13100-80	N/A	SP-DCA-128-H2023	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2025	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23545-81	N/A	SP-DCA-128-H2025	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2026	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	28009-82	N/A	SP-DCA-128-H2026	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2027	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	13077-80	N/A	SP-DCA-128-H2027	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2030	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 26, 1992

Sheet 16 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SNUBBER	PACIFIC SCIENTIFIC	22997-81	N/A	SP-DCA-128-H2030	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2031	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	14374-80	N/A	SP-DCA-128-H2031	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2033	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	23590-81	N/A	SP-DCA-128-H2033	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-128-H2033	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2062	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	22912-81	N/A	SP-DCA-128-H2062	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DCA-128-H2068	1982	REPLACED	NO
MECHANICAL SNUBBER	PACIFIC SCIENTIFIC	03477-78	N/A	SP-DCA-128-H2068	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-120-H4	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 20, 1992

Sheet 17 of 17

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP#90-3108I WA#'s SEE REMARKS SECTION (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization: N/A

Expiration Date: N/A

4. Indentification of System: STEAM FLOW MONITORS SYSTEM 183F CLASS I

III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	SP-DBA-120-H4	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H301	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	14794-82	N/A	GBC-101-H301	1982	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H301	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H316	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01186-77	N/A	GBC-101-H316A	1977	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	02574-78	N/A	GBC-101-H316B	1978	REPLACED	N/A

7. Description of Work: SNUBBER REDUCTION PROJECT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NO TESTING 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 WA #'s C13844, C13845, C13846, C13847, C14118, C14120, C14121, C14122, C14123, C14124,
Applicable Manufacturer's Data Reports to be attached

C14125, C14126, C14127, C23012, & C23213.

CALC. #'s SR-951-1, 951-2, 952, & 953.

CODE CASE #'s N-122, N-319, & N-411.

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 17, 1992
Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE CO. of WALTHAM, MASSACHUSETTS have inpected the components described in this Owner's Report during the period 2-12-92 to 4-30-92, 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 PA 2159
Inspector's Signature National Board, State, Province, and Endorsements

Date July 22 1992

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: 12 MAY, 1992

Sheet 2 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	GBC-101-H316	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H333	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06963-78	N/A	GBC-101-H333	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H106	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02617-78	N/A	GBC-101-H106	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H160	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01243-81	N/A	GBC-101-H160	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H178	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02651-78	N/A	GBC-101-H178	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H188	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02743-78	N/A	GBC-101-H188	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 3 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H189	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00912-77	N/A	GBC-101-H189	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H101	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02611-78	N/A	GBC-101-H101	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H103	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00933-77	N/A	GBC-101-H103	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H105	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02609-78	N/A	GBC-101-H105	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H73	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H182	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01502-78	N/A	GBC-101-H182	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 4 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	GBC-101-H182	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H186	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00901-77	N/A	GBC-101-H186A	1977	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	00909-77	N/A	GBC-101-H186B	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H186	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H158	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00925-77	N/A	GBC-101-H158	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H158	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H200	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02671-78	N/A	GBC-101-H200	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H202	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 5 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	04098-79	N/A	GBC-101-H202	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H210	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01154-77	N/A	GBC-101-H210	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H211	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01155-77	N/A	GBC-101-H211	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H214	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02753-78	N/A	GBC-101-H214	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H198	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01242-78	N/A	GBC-101-H198	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H198	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H199	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 6 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	02674-78	N/A	GBC-101-H199	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H199	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H215	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	08620-81	N/A	GBC-101-H215	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H215	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H139	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02838-00	N/A	GBC-101-H139	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H139	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H282	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01501-78	N/A	GBC-101-H282	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H282	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 7 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H140	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03244-78	N/A	GBC-101-H140	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H140	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H131	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00921-77	N/A	GBC-101-H131	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H131	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H132	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00905-77	N/A	GBC-101-H132	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H132	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H135	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00908-77	N/A	GBC-101-H135	1977	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 8 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H138	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02839-00	N/A	GBC-101-H138	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H226	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	09465-82	N/A	GBC-101-H226	1982	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H130	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00920-77	N/A	GBC-101-H130	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H136	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02837-78	N/A	GBC-101-H136	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H142	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02604-78	N/A	GBC-101-H142	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H108	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 9 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	01308-70	N/A	GBC-101-H108	1970	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H109	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01537-78	N/A	GBC-101-H109	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H112	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01504-78	N/A	GBC-101-H112	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H117	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01384-78	N/A	GBC-101-H117	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H121	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01237-78	N/A	GBC-101-H121	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H128	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	11021-83	N/A	GBC-101-H128	1983	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 10 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H110	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01257-78	N/A	GBC-101-H110	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H110	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H111	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02578-78	N/A	GBC-101-H111	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H111	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H126	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01241-78	N/A	GBC-101-H126	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H126	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H129	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00883-77	N/A	GBC-101-H129	1977	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 11 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	GBC-101-H129	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H164	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01261-78	N/A	GBC-101-H164	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H169	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00881-77	N/A	GBC-101-H169	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H167	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01296-78	N/A	GBC-101-H167	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H167	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H173	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01496-78	N/A	GBC-101-H173A	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	01388-78	N/A	GBC-101-H173B	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 12 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	GBC-101-H173	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H175	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00890-77	N/A	GBC-101-H175	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H175	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H177	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01299-78	N/A	GBC-101-H177	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H177	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H170	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	11020-83	N/A	GBC-101-H170	1983	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H170	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H151	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 13 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	01541-78	N/A	GBC-101-H151	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H151	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H152	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	00800-77	N/A	GBC-101-H152	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H152	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H155	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01512-78	N/A	GBC-101-H155	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H155	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H156	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	08644-81	N/A	GBC-101-H156	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H156	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 14 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H248	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01191-77	N/A	GBC-101-H248	1977	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H248	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H244	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01262-78	N/A	GBC-101-H244A	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	01259-78	N/A	GBC-101-H244B	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H244	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H66	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H68	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H70	1982	REPLACED	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H100	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 15 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	02767-78	N/A	GBC-101-H100	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H153	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01536-78	N/A	GBC-101-H153	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H245	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01382-78	N/A	GBC-101-H245	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H246	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01491-77	N/A	GBC-101-H246	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H159	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01240-78	N/A	GBC-101-H159	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H159	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H330	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 16 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	06965-80	N/A	GBC-101-H330	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H330	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H331	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	06949-80	N/A	GBC-101-H331	1980	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H331	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H191	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01530-78	N/A	GBC-101-H191	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H191	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H216	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01371-78	N/A	GBC-101-H216	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H216	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 17 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H190	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01383-78	N/A	GBC-101-H190	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H192	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01533-80	N/A	GBC-101-H192	1980	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H194	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01385-78	N/A	GBC-101-H194	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H213	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02577-78	N/A	GBC-101-H213	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H277	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H277	1992	REPLACEMENT	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03188-78	N/A	GBC-101-H277A	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

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2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H195	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01161-00	N/A	GBC-101-H195	1977	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H228	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02678-78	N/A	GBC-101-H228	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H204	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01360-78	N/A	GBC-101-H204	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H204	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H206	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01256-78	N/A	GBC-101-H206	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H206	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H208	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 19 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	01298-78	N/A	GBC-101-H208	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H208	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H209	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01292-78	N/A	GBC-101-H209	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H209	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H256	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02742-78	N/A	GBC-101-H256	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H256	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H257	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01331-78	N/A	GBC-101-H257	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H257	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 20 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H266	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01349-78	N/A	GBC-101-H266A	1978	REPLACED	N/A
MECH. SNUBBER	PACIFIC SCIENTIFIC	01368-78	N/A	GBC-101-H266B	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H266	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H267	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01379-00	N/A	GBC-101-H267	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H267	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H252	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01327-78	N/A	GBC-101-H252	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H275	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02676-78	N/A	GBC-101-H275	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

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2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H263	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01513-78	N/A	GBC-101-H263	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H264	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01509-78	N/A	GBC-101-H264	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H268	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01531-78	N/A	GBC-101-H268	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H271	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03497-78	N/A	GBC-101-H271	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H274	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	02614-78	N/A	GBC-101-H274	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H230	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 22 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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. SNUBBER	PACIFIC SCIENTIFIC	01522-78	N/A	GBC-101-H230	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H239	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03496-78	N/A	GBC-101-H239	1978	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H234	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	08645-81	N/A	GBC-101-H234	1981	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H234	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H238	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01364-78	N/A	GBC-101-H238	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H238	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H240	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01258-78	N/A	GBC-101-H240	1978	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: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 23 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	GBC-101-H240	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H241	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	01234-78	N/A	GBC-101-H241	1978	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H241	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H279	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	03645-79	N/A	GBC-101-H279	1979	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H279	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H278	1982	REPLACED	NO
MECH. SNUBBER	PACIFIC SCIENTIFIC	04128-79	N/A	GBC-101-H278	1979	REPLACED	N/A
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H278	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H319	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 24 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PP&L	N/A	N/A	GBC-101-H319	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H332	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H332	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H113	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H113	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H127	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H127	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H145	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H145	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H174	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H174	1992	REPLACEMENT	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name) — Date: 12 MAY, 1992

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 25 of 26

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	GBC-101-H255	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H255	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H261	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H261	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H276	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H276	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H318	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H318	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H222	1982	REPLACED	NO
PIPE SUPPORT	PP&L	N/A	N/A	GBC-101-H222	1992	REPLACEMENT	NO
PIPE SUPPORT	BECHTEL	N/A	N/A	GBC-101-H272	1982	REPLACED	NO

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 12 MAY, 1992

Sheet 26 of 26

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

DCP 90-3108I; WA #'s SEE REMARKS (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM RELIEF SAFETY SYSTEM 183D CLASS III

5. (a) Applicable Construction Code: III 19 77 Edition, thru S'79 Addenda, REMARKS Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru W'80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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.	PP&L	N/A	N/A	GBC-101-H272	1992	REPLACEMENT	NO