

SUSQUEHANNA STEAM ELECTRIC STATION

INSERVICE INSPECTION

OUTAGE SUMMARY REPORT

for the

UNIT 2

SECOND REFUELING OUTAGE

1988

8809290036 880923
PDR ADOCK 05000388
G PDC

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
2 North 9th Street, Allentown, PA 18101
(Name and Address of Owner)
2. Plant Susquehanna Steam Electric Station
Route 11, Berwick, PA 18603
(Name and Address of Plant)
3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 02/12/85 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RHR Service Water	Bechtel	2-16A	N/A	N/A
Fuel Pool Cooling	Bechtel	2-35B	N/A	N/A
Feedwater	Bechtel	2-45A	N/A	N/A
RHR	Bechtel	A, B, D, E, F, G 2-49	N/A	N/A
RCIC	Bechtel	2-50B, C	N/A	N/A
Core Spray	Bechtel	2-51A	N/A	N/A
HPCI	Bechtel	2-52A, B	N/A	N/A
SBLC	Bechtel	2-53A	N/A	N/A
ESW	Bechtel	2-54A	N/A	N/A
CRD	Bechtel	2-55B	N/A	N/A
RWCU	Bechtel	2-61B	N/A	N/A
Reactor Vessel/ Nuclear Boiler	CB&I/Bechtel	B5024/2-62A	B111231	3687
Reactor Recirculation	Bechtel	2-64A, B	N/A	N/A
Main Steam	Bechtel	2-83A, B, D	N/A	N/A
MSIV Leakage Control	Bechtel	2-83H	N/A	N/A
RHR Heat Exchanger	Montreal Locomotive Works	106390/106410	469380/ 469381	122/124

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this 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 10/29/86 to 06/25/88 9. Inspection Interval from 02/12/85 to 02/12/95
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 9-20 19 88 Signed Robert G. Byram By Robert G. Byram
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 PENNA. and employed by * of * have inspected the components described in this Owners' Data Report during the period Oct. 29, 1986 to June 25, 1988 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.

Date SEP 21 19 88 FACTORY MUTUAL SYSTEM
William R. Rogers III Commissions NB7980 PA2204
Inspector's Signature National Board, State, Province and No.

* Arkwright Boston Mfgs. Mutual Ins. Co.
225 Wyman Street
Waltham, MA 02154

SUSQUEHANNA STEAM ELECTRIC STATION

INSERVICE INSPECTION

OUTAGE SUMMARY REPORT

FOR THE

UNIT 2

SECOND REFUELING OUTAGE

MARCH 5, 1988 to JUNE 25, 1988

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INTRODUCTION

1. Susquehanna Steam Electric Station, Unit 2, began commercial operation on February 12, 1985. The Unit was shutdown for its second refueling outage on March 5, 1988, extending the 36 month first Inspection Period of the First Ten Year Interval 134 days. The Refueling Outage and the Inservice Inspections were completed on June 25, 1988. This report covers the examinations, tests, replacements and repairs conducted from the conclusion of the First Refuel Outage to the conclusion of the Second Refuel Outage.
2. The applicable year and addenda of the ASME Boiler and Pressure Vessel Code, Division 1, Section XI for the SSES Unit 2 is the 1980 Edition through and including the Winter, 1981 Addenda. PP&L has selected the 10 Year Inspection Interval as prescribed in IWA-2420, Plan B. The First Period of the First Interval ended June 25, 1988.
3. This Report is divided into the various sections listed below:
 - o Piping and Component Examinations
 - o Reactor Pressure Vessel Examinations
 - o System Pressure Tests
 - o Snubber Functional Tests
 - o 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 opted to use the Outage Summary Report to transmit NIS-2 Forms for Class 3 components and R-1 Forms for Section VIII components.
5. Specific code compliance items and percentages attained are listed in the Code Compliance Summary, Appendix B.
6. The Authorized Nuclear Inservice Inspectors for this Period were:

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

B. PIPING AND COMPONENT EXAMINATIONS

1. Abstract of Examinations

a. The Piping and Component Examinations were conducted in accordance with Section IWB, IWC, IWD and IWF of ASME Section XI and PP&L Document ISI-T-207.0. 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 Appendices A.1 and A.2.

b. Code Compliance Summary

Appendix B 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 D of this Compliance Report. This Summary includes the total number of selected components for the First Period. Percentages are shown for the First Period in relation to the First Interval.

2. Abstract of Conditions Noted and Corrective Action Taken

a. A total of 28 nonconformances were initiated during the Unit 2 Second Refuel and Inspection Outage against Piping and Component scheduled exams. Five of these NCR's identified surface indications which exceed the allowable tolerance of ASME Section XI, only one of which, 88-227, was considered service related and resulted in 100% inspection/replacement of all CRD Drive Flange Bolts. Note that inspections were not expanded for spring can cold sets because this condition is not considered service induced.

b. The following is a Synopsis of all NCR's initiated against Piping and Components.

<u>NCR #</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>SYS</u>	<u>WORK DOCUMENT</u>
88-0095	GBB-2044-2-B WELD	SURFACE INDICATION EXCEEDS TOLERANCE	249B	V83531
88-0096	RHR B HEAT EXCH WELD	SURFACE INDICATION EXCEEDS TOLERANCE	249B	V83532
88-0103	HRC-208(1)-H54	VISUAL-BENT ROD EYE AT 10" PIPE CLAMP	254A	V83636
88-0104	DBB-221(1)-H4	SURFACE INDICATION EXCEEDS TOLERANCE	250	NONE
88-0132	DBB-229(1)-H3	COLD SET EXCEEDS DESIGN (SPRGCN)	283	V83589

<u>NCR #</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>SYS</u>	<u>WORK DOCUMENT</u>
88-0135	GBB-205-H98	COLD SET (SPRGCN) HANGER PINNED-PER PMR86-7034	249B	V83571
88-0136	GJB-207(2)-H25	COLD SET EXCEEDS DESIGN (SPRGCN)	249B	V83572
88-0137	GBB-204(1)-H7	COLD SET EXCEEDS DESIGN (SPRGCN)	249A	V83570
88-0138	GBB-204(2)-H100	COLD SET EXCEEDS DESIGN (SPRGCN)	249A	V83569
88-0139	GBB-204(4)-H88	COLD SET EXCEEDS DESIGN (SPRGCN)	249B	V83568
88-0140	GBB-204(4)-H19	COLD SET EXCEEDS DESIGN (SPRGCN)	249B	V83567
88-0141	DBB-220(1)-H16	COLD SET EXCEEDS DESIGN (SPRGCN)	252	V83588
88-0142	GBB-206(1)-H57	COLD SET EXCEEDS DESIGN (SPRGCN)	249A	V83631
88-0155	HBB-211-H28	COLD SET EXCEEDS DESIGN (SPRGCN)	262	NONE
88-0198	HBB-201-H7	FLANGE THICKNESS INDETERMINANT	250	V83615
88-0199	DBB-214-H24	GRINDING CONDITION IS NOT WITHIN TOLERANCE	252	V83599
88-0222	GBB-201(2)-H29	COLD SET (SPRGCN)	251A	V83628
88-0227	CRD DRIVE EXCH BOLTS	SURFACE INDICATIONS	255	V83668
88-0229	DCA-211(2)-H8	COLD SET(SPRGCN)	249A	V83627
88-0264	DCA-210(1)-1-A	WELD GRINDING PREVENTS EVALUATION	249A	V83632
88-0268	GBC-201-17	COLD SET(SPRGCN)	283	NONE
88-0269	GBC-201-8-H42	COLD SET(SPRGCN)	283	NONE
88-0270	GBC-201-16-H78	COLD SET(SPRGCN)	283	NONE
88-0274	GBC-201-9-H334	COLD SET(SPRGCN)	283	NONE

<u>NCR #</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>SYS</u>	<u>WORK DOCUMENT</u>
88-0285	DBB-220(1)-3-D	SURFACE INDICATION EXCEEDS TOLERANCE	252	V83674
88-0316	MSRV INLET FLNG BOLT	10 YR PLAN INSPECTION REQUIREMENT NOT MET	283	NONE
88-0441	HRC-208(1)-H55	ARC STRIKES ON STRUCT STEEL	254A	NONE
88-0505	PROCEDURAL VIOLATION	ASME 11, IWC-2412 PERCENTAGE EXAMS NOT MET	249	NONE

NOTE: NCR87-828 initiated during Unit 1 Third RFO-against nonconforming MT powder (Primary Systems) was closed during this refuel outage.

3. Incomplete Examinations

There were ten examinations where access to the entire weld was limited due to configuration or physical obstructions. These exams will be submitted for relief. The affected components are as follows:

<u>COMPONENT ID</u>	<u>SYSTEM</u>	<u>COVERAGE OBTAINED</u>
DLA 2031-FW-2 (CIRC. WELD)	FEEDWATER	80%
DBB 2141-HW-5A & 5D (LUG WELDS) HANGER #24	HPCI	67%
SP DBA 2141-FW-14 (CIRC. WELD)	MAIN STEAM	92%
MST 222-HW-1A, 1B, 1C & 1D HANGER #1 (LUG WELDS)	MAIN STEAM	75%
MST 222-HW-3A, 3B, 3C & 3D HANGER #3 (LUG WELDS)	MAIN STEAM	75%
DBB 2072-FW-3 (CIRC. WELD)	RHR	96%
DBB 2072-1-D (CIRC. WELD)	RHR	96%
2E-205B-15 (HT. EXCHGR HEAD WELD)	RHR	96%
RWS 200-HW-1A, 1B, 1C, 1D 1E, 1F, 1G, & 1H HANGER #28 (LUG WELDS)	RX RECIRC.	75%
RWS 200-HW-3AA, 3AB, 3AC & 3AD HANGER #HBI (LUG WELDS)	RX RECIRC.	75%

NOTE: An incomplete examination is a portion of the weld required volume which has not been examined per ASME requirements. Relief is normally requested by the licensee.

C.O REACTOR PRESSURE VESSEL INTERNAL EXAMINATIONS

1. Abstract of Examinations

RPV Internal examinations were performed by a joint team of General Electric and CTS inspection personnel. CTS personnel handled the video taping, while G.E. personnel interpreted the recorded examination data.

2. Code Compliance Summary

Appendix E.1 provides a detailed listing of the components examined. These components are listed under category B-N-1 and B-N-2.

3. Abstract Of Conditions Noted And Corrective Measures Taken.

- a. Non-Section XI examinations were performed on the Steam Dryer and Separator. Eighteen (18) indications were found during the ISI RPV Dryer/Separator Inspections:

<u>COMPONENT ID</u>	<u>INDICATIONS</u>
o Drain Channel to Skirt Joints	4 Cracks
o Dryer Support Ring	14 Cracking Areas

The cracking on the Dryer Support Ring is documented on NCR 88-0115, no further action required, use as is.

NCR 88-0143 documented the Drain Channel cracking, no further action required, use as is.

- b. RPV Internal Inspections including RO* and EOI items were performed. No indications were detected during these inspections.
- c. The Steam Separator damage recovery inspections were performed after the scheduled ISI examinations were completed. Damage was documented on two (2) Feedwater Spargers referenced on NCR 88-0321. Steam Separator damage was documented on NCR 88-0337. The Feedwater Sparger repair was not a Section XI repair. After repairs were completed, a preservice baseline was completed on the Feedwater Spargers, attachments and RPV cladding.

<u>INDICATION</u>	<u>DISPOSITION</u>
o Feedwater Spargers N4C and N4F Damaged Nozzles on both	Conditional Release N4C Weld Repair S Nozzle. Use As Is For One Cycle and test.
o The Separator 180 degree Guide Pin Follower was damaged	Use As Is, no further action required.
d. The percentages for each code item number are listed. Partial examinations for each component are noted. INF 88-068 references incomplete inspection.	

<u>COMPONENT</u>	<u>PERCENTAGE OF COVERAGE</u>
o N4 Feedwater Spargers Unclad Areas (all) RO*	90%
o N4A, N4B Feedwater Sparger Welds Bracket Welds	80%
o Baffle Plate Att. Weld	33%
o Shroud-Shroud Support	33%

C.1 REACTOR PRESSURE VESSEL EXTERNAL EXAMINATIONS

1. Abstract of Examinations

a. The RPV External Examinations were conducted in accordance with Section IWB, 2500-1 of The ASME Section XI and PP&L Document ISI-T-207.0. 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 E.

b. Code Compliance Summary

Appendix B provides a breakdown by Code Category and Item Number for all Section XI Class 1, RPV Components. This Summary includes the total of selected components for the First Period completed exams. Percentages are shown for the First Period in relation to the First Interval.

2. Abstract of Conditions Noted and Corrective Action Taken

a. A total of two (2) nonconformances were initiated during the Unit 2 Second Refuel and Inspection Outage against the RPV External scheduled exams. Both of these NCRs identified surface indications which exceed the allowable tolerance of ASME Section XI. The indications were repaired under the WAs listed below. The indications were not considered service related, therefore RPV examinations were not expanded.

b. The following is a Synopsis of the NCRs initiated against the RPV External Components.

<u>NCR No</u>	<u>COMPONENT</u>	<u>DESCRIPTION</u>	<u>SYS</u>	<u>DOCUMENT</u>
88-0129	REACTOR RECIRC. NOZ. NIA	SURFACE INDICATION EXCEEDS TOLERANCE	62	V83533
88-0176	RPV CLOSURE HEAD	SURFACE INDICATION EXCEEDS TOLERANCE	62	V83620

3. Incomplete Examinations

There were some examinations where access to the entire component was limited due to configuration of physical obstructions. The affected components are referenced in Appendix E.2 of this Report. (Reference Summary Report #2 of Appendix E).

D. SYSTEM PRESSURE TESTS

1. Abstracts of Tests Conducted

Five systems were tested during the Outage. VT-2 Procedures require that System Leak Tests be performed with systems at operating temperature and pressure.

<u>SYSTEM</u>	<u>PROCEDURE</u>
Main Steam	SE-283-311
MSIV Leakage Control Syst.	SE-283-301
Fuel Pool Cooling	SE-235-301
Control Rod Drive	SE-255-301
Class 1 Boundary	SE-200-002

2. Code Compliance Summary

Code Category B-P requires an Inservice Leak Test/Functional Leak Test per ASME Section XI, Para. IWB-5221 each Refueling Outage. This requirement was satisfied by Test SE-200-002. Inservice System Leak Tests periodic requirements were satisfied.

3. Abstract of Conditions Noted and Corrective Measures taken

No through wall leakage of the Pressure Retaining Boundary was identified. Minor mechanical leaks in packing, seals etc. were found during the tests. These leaks were documented and corrected by plant maintenance personnel.

E. MECHANICAL SNUBBER FUNCTIONAL TESTS

1. A total of 524 Mechanical Snubbers were functionally tested. All Snubbers were manufactured by Pacific Scientific. The contractor performing the Functional Tests was Wyle Testing. The Snubbers were selected and tested in accordance with Susquehanna Steam Electric Station Technical Specification/Unit 2/-3/4.7.4 Snubbers. PP&L previously submitted Relief Request #2RR-7 requesting specific relief from the requirements of IWF-5000 in ASME Section XI. This relief request is contained in Document ISI-T-206.0 Inservice Inspection Program Plan First Ten Year Inspection Interval.

2. Code Compliance Summary

Per Relief Request #2RR-7, 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. The Snubber Functional Test detailed listing can be found under Appendix C.

3. Abstract of Conditions Noted and Corrective Measures Taken

- a. The testing options allowed by Unit 2 Technical Specifications resulted in Snubbers being divided into five groups for testing. These consisted of:
 - Group 1 Size 1/4 and 1/2
 - Group 2 Size 1, 3, and 10
 - Group 3a Size 35
 - Group 3b Size 100
 - Group 4 Size PSB.05 and .12

Group 3 was divided into two separate Testing Units due to the high failure rate found on the Size 100's during the Unit 1 3RFO. Sampling plans were applied independently. Group 1, 3b, and 4 used Sample Plan E.1 of 3/4.7.4 Groups 2 and 3a use Sample Plan E.2 and 3/4.7.4.

- b. The following results were achieved in compliance with the Technical Specification for Testing and Sampling:

<u>GROUP/SIZE</u>	<u>GROUP TOTAL</u>	<u>NO. TESTED</u>	<u>NO. FAILED</u>
1 - 1/4	91	91	8
1 - 1/2	86	86	6
2 - 1	151	51	2
2 - 3	163	44	7
2 - 10	188	59	4
3a- 35	502	136	9
3b- 100	58*	55	16
4 - .05	5	1	0
4 - .12	4	1	1

*3 Size 100's Snubbers were Design Class 6 (Non-ASME, Non Q and Non-safety related) and therefore were not tested.

- c. The Snubbers that failed testing were replaced with successfully tested Spare Snubbers. An Engineering Evaluation was performed for all Snubbers that failed testing. The Evaluation concluded that all Supported Components were still capable of meeting their intended design function and service requirements.
- d. Testing of the Special Case Snubbers found 3 of the 6 as failures. Two of the failures were replaced with functionally acceptable spares. The third failure was a reduction snubber and was not replaced.
- e. A Reduction Program was also performed during this Outage. A total of 116 snubbers were removed from service and not reinstalled. Each of these snubbers was functionally tested with the acceptable ones becoming spares and the rejected ones are documented on Nonconformance Reports.
- f. NCRs are documented on the Snubber Tracking Report.

4. Detailed Listing (See Appendix C)

- a. Procedures Utilized: AD-QA-195 Rev. 1
MT-099-006 Rev. 2
- b. Snubbers Tested, Failures and Replacements are listed in Appendix C. NIS-2 Forms for the Replacements are listed in Appendix D.1.
- c. See Table I for a Summary of Tests by Category.

UNIT II - 2 RFO SNUBBER FUNCTIONAL TESTING SUMMARY

NOTE: FAILURE QUANTITIES SHOWN IN ().

SIZE	ORIGINAL OUTAGE TESTS					ADDITIONAL TESTS			TOTALS
	INITIAL SAMPLE	SPECIAL CASE	PREVIOUS FAILURES	REDUCTION "ONLY" #	SUB-TOTAL	CONTINGENCY TESTS	EXTRA'S (VALVE AG-WORK, ETC.)	SUB-TOTAL	
PSA-1/4	9 (1)	5 (2)	7 (1)	15 (0)	36 (4)	55 (4)	0 (0)	55 (4)	91 (8)
-1/2	8 (0)	1 (1)	3 (0)	11 (1)	23 (2)	63 (4)	0 (0)	63 (4)	86 (6)
-1	11 (0)	0 (0)	6 (1)	24 (1)	46 (2)	1 (0)	4 (0)	5 (0)	51 (2)
-3	12 (0)	0 (0)	0 (0)	19 (1)	31 (1)	4 (0)	9 (6)	13 (6)	44 (7)
-10	14 (2)	0 (0)	2 (0)	6 (0)	22 (2)	19 (0)	18 (2)	37 (2)	59 (4)
-35	37 (3)	0 (0)	5 (0)	25 (3)	67 (6)	45 (0)	24 (3)	69 (3)	136 (9)
-100	6 (3)	0 (0)	2 (0)	2 (1)	10 (4)	45 (12)	0 (0)	45 (12)	55 (16)
PSB-.05	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	0 (0)	1 (0)	1 (0)
-.12	1 (1)	0 (0)	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	1 (1)
TOTALS	98 (10)	6 (3)	25 (2)	107 (7)	236 (22)	233 (20)	55 (11)	288 (31)	524 (53)

OTHER (ADDITIONAL) REDUCTION
SNUBS ALSO EXIST WITHIN
OTHER GAMES:

(2) PSA-1/4 I.S.
(3) -10 I.S.
(1) -1/2 S.C.
(2) -1/4 P.F.
(1) -1/2 P.F.
(1) -1 P.F.
10 TOTAL

107 REDUCTION SNUBS FROM ABOVE
+ 10 " " " @ LEFT
117 TOTAL REDUCTION SNUBS.

NOTE: ONE PSA-1 WAS REPLACED
WITH A PSA-3 WHICH MEANS
116 TOTAL SNUBS WERE
REMOVED & "LEFT OUT"

524 SNUBS REMOVED
- 116 SNUBS "LEFT OUT"
408 SNUBS REINSTALLED.

(ALSO, SOME OF THE REDUCTION
SNUBS WERE REPLACED WITH
RIGID STRUTS.)

5-27-88

F. ASME REPAIRS AND REPLACEMENTS

1. Introduction

This section of the Summary Report contains work performed on ASME Section 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 Unit 2 First Refuel Outage through the completion of the Unit 2 Second Refuel Outage.

2. Code Compliance Summary

All work on ASME Section XI items meet the requirements of IWA-4000 (Repairs) and IWA-7000 (Replacements) in 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. Installation Engineering is responsible for performing Design Changes in accordance with ASME XI under Construction Work Orders. This work is documented on NIS-2 Forms which are submitted under Appendix D.2 Installation Engineering. See Appendix D.2.

5. E&S Construction conducts repairs delegated them by Mechanical Maintenance. This work is completed under the WA process and is documented under NIS-2 Forms. Appendix D.3 contains the detailed list of Work Authorizations and NIS-2 Forms.

6. ISI generates NIS-2 Forms to document the replacement of a snubber due to a functional test failure. The detailed listing of the effected snubbers is Appendix C. Appendix D.4 contains the NIS-2 Forms.

PIPING
and
COMPONENT
EXAMINATION

DETAILED
LISTING

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG1
 ITEM NUMBER AUG1

AS OF: 09/12/88

CTD	DESC	ISS	CAL	SYSTEM	EXAM	AN11	PROGRAM	INDICATION	NCR NO.
-----	----	---	BLOCK	-----	NO	SIGN-OFF	CREDIT	RESOLUTION	-----
DBB2191-FW-2 VOL	V-P	151-088-219-1	P-74	FW LOOP	456018	03/16/88	Y	NRI	
DBB2191-FW-3 VOL	SWOL-P	151-088-219-1	P-02	FW	456019	03/16/88	Y	NRI	
DLA2011-FW-2 VOL	V-FH	151-0LA-201-1	P-70	FW	456038	03/16/88	Y	GEO ACCP	
DLA2011-FW-5 VOL	V-P	151-0LA-201-1	P-68	FW	456039	04/11/88	Y	GEO ACCP	
DLA2031-FW-2 VOL	V-FH	151-0LA-203-1	P-70	FW	456040	03/24/88	Y	GEO ACCP	
DBB2191-1-C VOL	T-P	151-088-219-1	P-40	HPCI	526021	03/31/88	Y	NRI	
DBB2191-1-D VOL	P-E	151-088-219-1	P-40	HPCI	526022	03/29/88	Y	NRI	
SPOBA2141-FW-13 VOL	P-T	151-0BA-214-1	P-01	M5	836044	03/16/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG1
ITEM NUMBER AUG1

AS OF: 09/12/88

CTO	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	RESOLUTION	----
EXAM TYPE				LOOP					
SPDBA2141-FW-14 VOL	T-RED	ISI-DBA-214-1	P-01	MS	836045	03/24/88	Y	NR1	
SPDBA2141-FW-18 SUR	P-V	ISI-DBA-214-1		MS	835054	03/16/88	Z	NR1	
SPDBA2141-FW-21 VOL	P-E	ISI-DBA-214-1	P-01	MS	836046	03/16/88	Y	NR1	
SPDBA2161-FW-6 VOL	P-E	ISI-DBA-216-1	P-01	MS	836047	03/16/88	Y	NR1	
SPDBA2161-FW-9 VOL	T-RED	ISI-DBA-216-1	P-01	MS	836048	03/25/88	Y	GEO ACCP	
DBA2051-FW-5 VOL	V-P	ISI-DBA-205-1	P-04	RCIC	506003	03/24/88	Y	NR1	
DBA2051-4-A VOL	P-E	ISI-DBA-205-1	P-04	RCIC	506005	03/24/88	Y	NR1	
TALLY ITEM AUG1	15								
TALLY CDECAT AUG1	15								

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG2
ITEM NUMBER AUG2

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
DCB2072-FW-3 VOL	P-V	151-DBB-207-2	P-64	RHR B	496010	03/15/88	Y	NR1	
DBB2072-1-0 VOL	E-P	151-DBB-207-2	P-64	RHR B	496011	03/15/88	Y	NR1	
DCA2101-FW-10 VOL	P-V	151-DCA-210-1	P-64	RHR A	496026	04/18/88	Y	NR1	
DCA2101-1-A VOL	P-E	151-DCA-210-1	P-64	RHR A	496027	03/25/88	Y	NR1	
DCA2101-4-A VOL	P-E	151-DCA-210-1	P-64	RHR A	496028	04/18/88	Y	NR1	
DCA2102-1-A VOL	P-E	151-DCA-210-2	P-64	RHR B	496029	03/29/88	Y	NR1	
DCA2102-2-A VOL	E-PB	151-DCA-210-2	P-64	RHR B	496030	03/25/88	Y	NR1	
VRRB313-FW-A-2 VOL	P-P	151-VRR-B31-3	P-79	RR A	646051	04/15/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG2
ITEM NUMBER AUG2

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL PLD	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
VRRB313-FW-A-4 VOL	V-P	ISI-VRR-B31-3	P-79	RR A	646053	03/24/88	Y	NR1	
VRRB313-FW-A-6 VOL	PO-P	ISI-VRR-B31-3	P-80	RR A	646054	04/13/88	Y	NR1	
VRRB313-9-A VOL	P-E	ISI-VRR-B31-3	P-79	RR A	646060	04/15/88	Y	NR1	
VRRB314-FW-B-1 VOL	SE-P	ISI-VRR-B31-4	P-79	RR B	646062	03/29/88	Y	NR1	
VRRB314-FW-B-13 VOL	SWOL-P	ISI-VRR-B31-4	P-93	RR B	646063	04/25/88	Y	GEO ACCP1	
VRRB314-FW-B-14 VOL	SWOL-P	ISI-VRR-B31-4	P-93	RR B	646064	04/25/88	Y	GEO ACCP1	

ITEM AUG2 14
CAT AUG2 14

RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG2
 ITEM NUMBER AUG2

AS OF: 09/12/89

CID	EXAM TYPE	DESC	151	150	CAL	SYSTEM	EXAM	AN11	PROGRAM	INDICATION	NCR NO.
					BLOCK		NO	SIGN-OFF	CREDIT		
VR00313-FW-A-0	V-P	V-P	151-VR0-B31-3		P-79	RR A	646053	03/24/88	Y	NR1	
VR00313-FW-A-0	PU-P	PU-P	151-VR0-B31-3		P-80	RR A	646054	04/13/88	Y	NR1	
VR00313-9-A	P-X	P-X	151-VR0-B31-3		P-79	RR A	646060	04/15/88	Y	NR1	
VR00314-FW-B-1	SE-P	SE-P	151-VR0-B31-4		P-79	RR B	646062	03/29/88	Y	NR1	
VR00314-FW-B-13	SW01-P	SW01-P	151-VR0-B31-4		P-93	RR D	646063	04/25/88	Y	GED ACCP	
VR00314-FW-B-14	SW01-P	SW01-P	151-VR0-B31-4		P-93	RR B	646064	04/25/88	Y	GED ACCP	

TALLY ITEM AUG2 14
 TALLY CDECAT AUG2 14

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG3
 ITEM NUMBER AUG3

AS OF: 09/12/88

EXAM TYPE	DESC	ISI	CAL BLOCK	SYSTEM	E AM NU	ANLI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
								RESOLUTION	
N4A-1R VOL	NOZ-1R	150	P-1	RPV	626125	06/06/88	Y	NRI	
N4A-BORE VOL	FW NOZZLE BORE		P-01	RPV	626121	06/06/88	Y	NRI	
N4A-SE VOL	SAFE-END		P-22	RPV	626122	05/02/88	Y	NRI	
N4B-1R VOL	NOZ-1R		P-01	RPV	626122	06/06/88	Y	NRI	
N4B-BORE VOL	FW NOZZLE BORE		P-01	RPV	626125	06/06/88	Y	NRI	
N4B-SE VOL	SAFE-END		P-22	RPV	626126	05/02/88	Y	NRI	
N4C-1R VOL	NOZ-1R		P-01	RPV	626126	06/06/88	Y	NRI	
N4C-BORE VOL	FW NOZZLE BORE		P-01	RPV	626129	06/06/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG3
 ITEM NUMBER AUG3
 AS OF: 09/12/84

EXAM TYPE	DESC	ISI	CAL	SYSTEM	EXAM NO	AN11 SIGN-OFF	PROGRAM CREET	INDICATION	NCR NO.
			BLOCK	LOOP				RESOLUTION	
N4C-SE VOL	SAFE-END	151 150	P-22	RPV	626130	05/02/88	Y	NRI	
N4D IR VOL	NOZ-IR		P-01	RPV	626132	06/06/88	Y	NRI	
N4D-BORE VOL	FW NOZZLE BORE		P-01	RPV	626133	06/06/88	Y	NRI	
N4D-SE VOL	SAFE-END		P-22	RPV	626134	05/02/88	Y	NRI	
N4E IR VOL	NOZ-IR		P-01	RPV	626136	06/06/88	Y	NRI	
N4E-BORE VOL	FW NOZZLE BORE		P-01	RPV	626137	06/06/88	Y	NRI	
N4E-SE VOL	SAFE-END		P-22	RPV	626140	05/02/88	Y	NRI	
N4F IR VOL	NOZ-IR		P-01	RPV	626143	06/06/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY AUG3
 ITEM NUMBER AUG3

AT OF: 09/12/88

EXAM TYPE	DESC	TSI	CAL	BLOCK	SYSTEM	EXAM NO	ANTI SIGM-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
N4F-BORE VOL	FW NOZZLE BORE	151 150	P-01	RPV	LOOP	626144	06/06/88	Y	NRI	
N4F-SE VOL	SAFE-END		P-22	RPV		626	12/88	Y	NRI	

TALLY ITEM AUG3 1B
 TALLY COECAT AUG3 1B

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-A
 ITEM NUMBER B1.11

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ----	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO. -----
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
AA-BOT VOL	BHEAD-SC1	205719	P-01	RPV	626101	05/16/88	Y	NRI	
AA-TOP VOL	BHEAD-SC1		P-01	RPV	626102	04/14/88	Y	NRI	

TALLY ITEM B1.11 2

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-A
 ITEM NUMBER B1.21

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	---	NO	SIGN-OFF	CREDIT	RESOLUTION	----
EXAM TYPE				LOOP					
-----				---				-----	
AH	TPHEAD-CIRC		P-04	RPV	626105	04/27/88	Y	GEO	
VOL								ACPT	

TALLY ITEM B1.21 1

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-A
ITEM NUMBER B1.22

AS OF: 09/12/88

CID	CESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
DP VOL	TPHEAD MERID		P-03	RPV	626106	04/29/88	Y	GEO ACCP	
DR VOL	TPHEAD MERID		P-03	RPV	626107	04/28/88	Y	GEO ACCP	

TALLY ITEM B1.22 2

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-A
 ITEM NUMBER B1.30

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
----	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
AF	SCS-VFLG		P-05	RPV	626103	04/27/88	V	GEO	
VOL								ACCP	

TALLY ITEM B1.30 1

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-A
 ITEM NUMBER B1.40

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ---				RESOLUTION -----	
AG VOL	TPHEAD-FLG		P-03	RPV	626104	04/26/88	Y	RELV ACCP	
AG SUR	TPHEAD-FLG			RPV	625100	03/31/88	Y	RELV ACCP	88-0176

TALLY ITEM B1.40 2
 TALLY CODECAT B-A 8

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-D
ITEM NUMBER B3.100

AS OF: 09/12/88

IID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
N1A IR VOL	NOZ-IR		P-01	RPV A	626109	04/14/88	Y	NRI	
N2A IR VOL	NOZ-IR		P-01	RPV B	626112	05/31/88	Y	NRI	
N2F IR VOL	NOZ-IR		P-01	RPV A	626115	05/31/88	Y	NRI	
N2J IR VOL	NOZ-IR		P-01	RPV A	626120	05/31/88	Y	NRI	
N2K IR VOL	NOZ-IR		P-01	RPV A	626146	05/31/88	Y	NRI	
N4A IR VOL	NOZ-IR		P-01	RPV	626119	06/06/88	Y	NRI	
N4B IR VOL	NOZ-IR		P-01	RPV	626124	06/06/88	Y	NRI	
N4C IR VOL	NOZ-IR		P-01	RPV	626128	06/06/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-D
ITEM NUMBER B3.100

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK	SYSTEM ----- LOOP	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION ----- RESOLUTION	NCR NO. -----
EXAM TYPE -----									
N4D IR VOL	NOZ-IR		P-01	RPV	626132	06/06/88	Y	NRI	
N4E IR VOL	NOZ-IR		P-01	RPV	626136	06/06/88	Y	NRI	
N4F IR VOL	NOZ-IR		P-01	RPV	626143	06/06/88	Y	NRI	

TALLY ITEM B3.100 11

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-D
ITEM NUMBER B3.90

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM LOOP -----	EXAM NO ---	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION RESOLUTION -----	NCR NO. -----
EXAM TYPE -----									
N1A VOL	NOZ-SC1		P-01	RPV A	626108	04/14/88	Y	GEO ACCP	
N2A VOL	NOZ-SC1		P-01	RPV B	626111	06/06/88	Y	GEO ACCP	
N2F VOL	NOZ-SC1		P-01	RPV A	626114	06/06/88	Y	NRI	
N2K VOL	NOZ-SC1		P-01	RPV A	626138	06/06/88	Y	GEO ACCP	
N4A VOL	NOZ-SC3		P-01	RPV	626118	06/20/88	Y	GEO ACCP	
N4B VOL	NOZ-SC3		P-01	RPV	626123	06/20/88	Y	GEO ACCP	
N4C VOL	NOZ-SC3		P-01	RPV	626127	06/20/88	Y	GEO ACCP	
N4D VOL	NOZ-SC3		P-01	RPV	626131	06/20/88	Y	GEO ACCP	

HTS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-D
ITEM NUMBER B3.90

AS OF: 09/12/88

CID ---	DESC ---	ISI ISO ---	CAL BLOCK ---	SYSTEM ---	EXAM NO ---	ANTI SIGN-OFF ---	PROGRAM CREDIT ---	INDICATION ---	NCR NO. ---
EXAM TYPE -----				LOOP ---				RESOLUTION -----	
N4E VOL	N0Z-SC3		P-01	RPV	626135	06/20/88	Y	GEO ACCP	
N4F VOL	N0Z-SC3		P-01	RPV	626142	06/20/88	Y	GEO ACCP	

TALLY ITEM B3.90 10
TALLY CDECAT B-D 21

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-E
ITEM NUMBER B4.12

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
CRD-06-47 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	
CRD-10-11 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	
CRD-18-47 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	
CRD-18-59 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	
CRD-34-03 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	
CRD-42-47 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	
CRD-54-47 VT-2	CRD PEN	C199556		RPV	882406	06/11/88	Y	NRI	

TALLY ITEM B4.12 7

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-E
ITEM NUMBER B4.13

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANTI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
INCORE-40-21 VT-2	INCORE PEN	C199556		RPV	882406	06/11/88	Y	NRI	
INCORE-48-53 VT-2	INCORE PEN	C199556		RPV	882406	06/11/88	Y	NRI	
TALLY ITEM B4.13		2							
TALLY CDECAT B-E		9							

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-F
ITEM NUMBER 85.10

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ----	CAL BLOCK -----	SYSTEM ----- LOOP -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
N1A NOZ-SE VCL	NOZ-SE		P-13	RPV A	626110	03/25/88	Y	NR1	
N1A NOZ-SE SUR	NOZ-SE			RPV A	625102	04/15/88	Y	RELV ACCP	88-0129
N2A NOZ-SE VOL	SE-NOZ		P-27	RPV B	626113	04/18/88	Y	NR1	
N2A NOZ-SE SUR	SE-NOZ			PPV B	625103	04/15/88	Y	NR1	
N2F NOZ-SE VOL	SE-NOZ		P-27	RPV A	626116	04/13/88	Y	NR1	
N2F NOZ-SE SUR	SE-NOZ			RPV A	625104	04/07/88	Y	NR1	
N2J NOZ-SE VOL	SE-NOZ		P-27	RPV A	626117	06/03/88	Y	NR1	
N2J NOZ-SE SUR	SE-NOZ			RPV A	625105	04/27/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-F
ITEM NUMBER B5.10

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL CLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
N2K NOZ-SE VOL	SE-NOZ		P-27	RPV A	626139	06/03/88	Y	NRI	
N2K NOZ-SE SUR	SE-NOZ			RPV A	625106	03/23/88	Y	NRI	
TALLY ITEM B5.10	10								
TALLY CODECAT B-F	10								

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LTST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ----	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
RPV-STUD-50 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-51 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-52 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-53 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-54 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-55 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-56 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-57 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK ---	SYSTEM ---	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ---				RESOLUTION -----	
RPV-STUD-58 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-59 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-60 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-61 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-62 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-63 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-64 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	
RPV-STUD-65 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-6-1
ITEM NUMBER B6.20

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICA TION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
RPV-STUD-66 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-67 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-68 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-69 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-70 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-71 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-72 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-73 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
----				----				-----	
RPV-STUD-74 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-75 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	
RPV-STUD-76 VOL	RPV STUD		P-28	RPV	626100	03/14/88	Y	NRI	

TALLY ITEM B6.20 27
TALLY CODECAT B-G-1 27

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ---	DESC -----	ISI 150 ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
VNBB213-20-E-BG2 VT-1	FLANGE BOLTING			MS	834009	04/13/88	Y	NRI	
VNBB213-20-K-BG2 VT-1	FLANGE BOLTING			MS	834010	04/13/88	Y	NRI	
VNBB213-20-N-BG2 VT-1	FLANGE BOLTING			MS	834011	04/13/88	Y	NRI	
VNBB213-20-S-BG2 VT-1	FLANGE BOLTING			MS	834012	04/13/88	Y	NRI	

TALLY ITEM B7.50 4

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B G-2
ITEM NUMBER B7.70

AS OF: 09/12/88

CID ----	DESC ----	ISI ISO ----	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	AN11 SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
PSV2F013A-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-4		MS	834007	04/19/88	Y	NRI	
PSV2F013C-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-4		MS	834008	04/19/88	Y	NRI	
HV2F015A-BG2 VT-1	VALVE BOLTING			RHR A	494002	04/28/88	Y	NRI	
HV2F015B-BG2 VT-1	VALVE BOLTING			RHR B	494003	03/24/88	Y	NRI	
HV2F031A-BG2 VT-1	VALVE BOLTING			RR A	644004	03/18/88	Y	NRI	
HV2F031B-BG2 VT-1	VALVE BOLTING			RR B	644005	03/18/88	Y	NRI	

TALLY ITEM B7.70 6

HI: SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CIG ---	DESC ----	ISI 150 ---	CAL BLOCK -----	SYSTEM LOOP -----	EXAM NO -----	ANTI IGN-OFF -----	LOGRAM CREDIT -----	INDICATION RESOLUTION -----	NCR NO. -----
CRD-02-31-BLT VT-1	CRD HOUSING BLT			RPV	882004	03/28/88	Y	RI	88-227
CRD-10-15-BLT VT-1	CRD HOUSING BLT			RPV	882035	03/28/88	Y	RI	88-227
CRD-14-19-BLT VT-1	CRD HOUSING BLT			RPV	882022	03/28/88	Y	NRI	
CRD-18-59-BLT VT-1	CRD HOUSING BLT			RPV	882021	03/28/88	Y	RI	88-227
CRD-22-03-BLT VT-1	CRD HOUSING BLT			RPV	882012	03/28/88	Y	RI	88-227
CRD-26-03-BLT VT-1	CRD HOUSING BLT			RPV	882018	03/28/88	Y	RI	88-227
CRD-26-27-BLT VT-1	CRD HOUSING BLT			RPV	882016	03/28/88	Y	NRI	
CRD-26-39-BLT VT-1	CRD HOUSING BLT			RPV	882020	03/28/88	Y	RI	88-227

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID	EXAM TYPE	DESC	ISI	CAL BLOCK	SYSTEM LOOP	EXAM NO	ANTI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
CRD-30-39-BLT	VT-1	CRD HOUSING BLT	151		RPV	882017	03/28/88	Y	RI	88-227
CRD-30-55-BLT	VT-1	CRD HOUSING BLT	150		RPV	882001	03/28/88	Y	NRI	
CRD-34-15-BLT	VT-1	CRD HOUSING BLT			RPV	882010	03/28/88	Y	NRI	
CRD-34-31-BLT	VT-1	CRD HOUSING BLT			RPV	882014	03/28/88	Y	NRI	
CRD-34-59-BLT	VT-1	CRD HOUSING BLT			RPV	882013	03/28/88	Y	RI	88-227
CRD-38-11-BLT	VT-1	CRD HOUSING BLT			RPV	882003	03/28/88	Y	NRI	
CRD-42-27-BLT	VT-1	CRD HOUSING BLT			RPV	882005	03/28/88	Y	RI	88-227
D-42-43-BLT	VT-1	CRD HOUSING BLT			RPV	882033	03/28/88	Y	RI	88-227

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ---				RESOLUTION -----	
CRD-42-51-BLT VT-1	CRD HOUSING BLT			RPV	882019	03/28/88	Y	NRI	
CRD-46-31-BLT VT-1	CRD HOUSING BLT			RPV	882034	03/28/88	Y	R1	88-227
CRD-46-55-BLT VT-1	CRD HOUSING BLT			RPV	882006	03/28/88	Y	R1	88-227
CRD-50-19-BLT VT-1	CRD HOUSING BLT			RPV	882007	03/28/88	Y	NRI	
CRD-50-27-BLT VT-1	CRD HOUSING BLT			RPV	882015	03/28/88	Y	NRI	
CRD-54-15-BLT VT-1	CRD HOUSING BLT			RPV	882009	03/28/88	Y	NRI	
CRD-54-19-BLT VT-1	CRD HOUSING BLT			RPV	882011	03/28/88	Y	NRI	
CRD-54-47-BLT VT-1	CRD HOUSING BLT			RPV	882008	03/28/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
TALLY ITEM B7.80	24								
TALLY CDECAT B-G-2	34								

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-H
ITEM NUMBER BB.10

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
CG SUR	RPV-SUP SKIRT	151 150		RPV	625101	03/29/88	Y	NR1	
SB-A VT-1	STAB BRACK			RPV	882067	04/15/88	Y	NR1	
SB-B VT-1	STAB BRACK			RPV	882068	04/15/88	Y	NR1	
TALLY ITEM BB.10 3									
TALLY CDECAT B-H 3									

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.11

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
DCA2072-FW-6 VOL	P-V	151-DCA-207-2	P-33	CS B	516025	03/29/88	N	NRI	
DCA2072-FW-6 SUR	P-V	151-DCA-207-2		CS B	515022	03/23/88	N	NRI	
DLA2011-FW-2 SUR	V-FH	151-DLA-201-1		FW	455076	03/16/88	Y	NRI	
DLA2011-FW-2 VOL	V-FH	151-DLA-201-1	P-70	FW	456038	03/16/88	Y	GEO ACCP	
DLA2041-FW-6 SUR	T-P	151-DLA-204-1		FW	455032	03/24/88	Y	NRI	
DLA2041-FW-6 VOL	T-P	151-DLA-204-1	P-31	FW	456041	03/25/88	Y	NRI	
DLA2041-2-B SUR	T-RED	151-DLA-204-1		FW	455033	03/24/88	Y	NRI	
DLA2041-2-B VOL	T-RED	151-DLA-204-1	P-55	FW	456042	04/04/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.1'

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
DLA2041-3-A SUR	PB-E	ISI-DLA-204-1		FW	455034	03/24/88	Y	NRI	
DLA2041-3-A VOL	PB-E	ISI-DLA-204-1	P-31	FW	456043	03/25/88	Y	GEO ACCPT	
VNB8213-19-B SUR	P-E	SI-VNB-821-3		MS	835057	04/15/88	Y	NRI	
VNB8213-19-B VOL	P-E	ISI-VNB-821-3	P-75	MS	836049	04/19/88	Y	NRI	
DBA2051-FW-B VOL	FH-V	ISI-DBA-205-1	P-06	RCIC	506004	03/18/88	Y	GEO ACCPT	
DBA2051-FW-B SUR	FH-V	ISI-DBA-205-1		RCIC	505003	03/14/88	Y	NRI	
DCA2101-FW-10 SUR	P-V	ISI-DCA-210-1		RHR A	495023	04/13/88	Y	NRI	
DCA2101-FW-10 VOL	P-V	ISI-DCA-210-1	P-64	RHR A	496026	04/18/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.11

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ----	CAL BLOCK -----	SYSTEM LOOP -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION RESOLUTION -----	NCR NO. -----
DCA2101-1-A SUR	P-E	ISI-DCA-210-1		RHR A	495024	04/19/88	Y	POLV ACCPT	88-264
DCA2101-1-A VOL	P-E	ISI-DCA-210-1	P-64	RHR A	496027	03/25/88	Y	NRI	
DCA2112-FW-1 SUR	E-E	ISI-DCA-211-2		RHR A	495025	04/13/88	Y	NRI	
DCA2112-FW-1 VOL	E-E	ISI-DCA-211-2	P-14	RHR A	496031	04/18/88	Y	NRI	
DCA2112-FW-9 SUR	PB-E	ISI-DCA-211-2		RHR A	495026	04/13/88	Y	NRI	
DCA2112-FW-9 VOL	PB-E	ISI-DCA-211-2	P-13	RHR A	496032	04/18/88	Y	NRI	
DCA2112-5-A SUR	P-E	ISI-DCA-211-2		RHR A	495028	04/13/88	Y	NRI	
DCA2112-5-A VOL	P-E	ISI-DCA-211-2	P-13	RHR A	496034	04/18/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER 89.11

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ----	CAL BLOCK -----	SYSTEM	EXAM NO ----	ANI: SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOGP -----				RESOLUTION -----	
N4E-NOZ-SE SUR	SE-NOZ	151-DLA-202-1		RPV	625107	04/07/88	Y	NRI	
N4E-NOZ-SE VOL	SE-NOZ	151-DLA-202-1	P-22	RPV	626140	04/13/88	Y	NRI	
DCA2421-FW-2 SUR	P-T	151-DCA-242-1		RR B	645030	03/18/88	Y	NRI	
DCA2421-FW-2 VOL	P-T	151-DCA-242-1	P-05	RR B	646036	03/18/88	Y	NRI	
DCA2421-2-A SUR	P-E	151-DCA-242-1		RR B	645031	03/18/88	Y	NRI	
DCA2421-2-A VOL	P-E	151-DCA-242-1	P-05	RR B	646037	03/18/88	Y	NRI	
VRRB313-FW-A-15 SUR	P-SE	151-VRR-B31-3		RR A	645058	03/23/88	Y	NRI	
VRRB313-FW-A-15 VOL	P-SE	151-VRR-B31-3	P-93	RR A	646050	04/19/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.11

AS OF: 09/12/88

CTD ---	DESC ---	ISI ISO ---	CAL BLOCK ---	SYSTEM LOOP ---	EXAM NO ---	ANTI SIGN-OFF ---	PROGRAM CREDIT ---	INDICATION RESOLUTION ---	NCR NO. ---
EXAM TYPE -----									
VRRB313-FW-A-3 SUR	E-V	ISI-VRR-B31-3		RR A	645059	03/24/88	Y	NRI	
VRRB313-FW-A-3 VOL	E-V	ISI-VRR-B31-3	P-81	RR A	646052	03/25/88	Y	NRI	
VRRB313-FW-A-6 SUR	PU-P	ISI-VRR-B31-3		RR A	645060	04/13/88	Y	NRI	
VRRB313-FW-A-6 VOL	PU-P	ISI-VRR-B31-3	P-81	RR A	646054	04/13/88	Y	NRI	
VRRB314-FW-B-16 SUR	P-SE	ISI-VRR-B31-4		RR B	645067	04/15/88	Y	NRI	
VRRB314-FW-B-16 VOL	P-SE	ISI-VRR-B31-4	F-93	RR B	646065	04/19/88	Y	GEO ACCP	
VRRB314-FW-B-18 SUR	P-SE	ISI-VRR-B31-4		RR B	645068	04/15/88	Y	NRI	
VRRB314-FW-B-18 VOL	P-SE	ISI-VRR-B31-4	P-93	RR B	646066	04/19/88	Y	GEO ACCP	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.11

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ----	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
VRRB314-FW-B-8 SUR	V-E	151-VRR-B31-4		RR B	645069	03/23/88	Y	NRI	
VRRB314-FW-B-8 VOL	V-E	151-VRR-B31-4	P-81	RR B	646067	03/18/88	Y	GEN ACCP	
DBA2012-FW-26 SUR	E-P	151-DBA-201-2		RWCU	615000	04/13/88	Y	NRI	
DBA2012-FW-26 VOL	E-P	151-DBA-201-2	P-04	RWCU	616000	04/13/88	Y	GEN ACCP	
DBA2012-FW-3 SUR	V-P	151-DBA-201-2		RWCU	615001	04/13/88	Y	NRI	
DBA2012-FW-3 VOL	V-P	151-DBA-201-2	P-04	RWCU	616001	04/19/88	Y	NRI	
TALLY ITEM B9.11 46									

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.12

AS OF: 09/12/88

CID ----	DESC ----	ISI ISO ----	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
DCA2112-2-C SUR	PIPE SEAM	ISI-DCA-211-2		RHR A	495027	04/13/88	Y	NRI	
DCA2112-2-C VOL	PIPE SEAM	ISI-DCA-211-2	P-13	RHR A	496033	04/18/88	Y	NRI	
DCA2112-5-D SUR	PIPE SEAM	ISI-DCA-211-2		RHR A	495029	04/13/88	Y	NRI	
DCA2112-5-D VOL	PIPE SEAM	ISI-DCA-211-2	P-13	RHR A	496035	04/18/88	Y	NRI	
VRRB313-10-L SUR	SEAM-ELBOW	ISI-VRR-B31-3		RR A	645061	03/23/88	Y	NRI	
VRRB313-10-L VOL	SEAM-ELBOW	ISI-VRR-B31-3	P-81	RR A	646055	03/25/88	Y	GEO ACCP	
VRRB313-10-M SUR	SEAM-ELBOW	ISI-VRR-B31-3		RR A	645062	03/23/88	Y	NRI	
VRRB313-10-M VOL	SEAM-ELBOW	ISI-VRR-B31-3	P-81	RR A	646056	03/25/88	Y	GEO ACCP	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.12

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM ----- LOOP ----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
VRRB313-14-H SUR	SEAM-ELBOW	ISI-VRR-B31-3		RR A	645063	03/23/88	N	NRI	
VRRB313-14-H VOL	SEAM-ELBOW	ISI-VRR-B31-3	P-81	RR A	646057	03/25/88	N	NRI	
VRRB313-9-E SUR	SEAM-PIPE	ISI-VRR-B31-3		RR A	645066	04/13/88	Y	NRI	
VRRB313-9-E VOL	SEAM-PIPE	ISI-VRR-B31-3	P-79	RR A	646061	04/15/88	Y	NRI	
VRRB314-1-E SUR	SEAM-PIPE	ISI-VRR-B31-4		RR B	645070	04/20/88	Y	NRI	
VRRB314-1-E VOL	SEAM-PIPE	ISI-VRR-B31-4	P-79	RR B	646068	04/20/88	Y	NRI	
VRRB314-10-S SUR	SEAM-ELBOW	ISI-VRR-B31-4		RR B	645071	03/23/88	Y	NRI	
VRRB314-10-S VOL	SEAM-ELBOW	ISI-VRR-B31-4	P-81	RR B	646069	03/18/88	Y	GEO ACCP	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.12

AS CF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
VRRB314-10-T SUR	SEAM-ELBOW	SI-VRR-B31-4		RR B	645072	03/23/88	Y	NRI	
VRRB314-10-T VOL	SEAM-ELBOW	ISI-VRR-B31-4	P-B1	RR B	646070	03/18/88	Y	GEO ACCP	
TALLY ITEM B9.12 18									

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-J
ITEM NUMBER B9.40

AS OF: 09/12/88

CTD	DESC	ISI	CAL	SYSTEM	EXAM	ANJ	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
SPDCA2033-FW-10 SUR	P-V	ISI-SP-DC-203-3		RWCU	615055	04/18/88	Y	NRI	
SPDCA2033-FW-8 SUR	P-V	ISI-SP-DCA-203-3		RWCU	615056	04/18/88	Y	NRI	
TALLY ITEM B9.40	2								
TALLY CODECAT B-J	66								

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

EXAM ID	DESC	151 ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
MST222-HW-1A SUR	P-LUG/H1	151-VNB-B21-4-H	MS	MS	835050	04/13/88	Y	NRI	
MST222-HW-1B SUR	P-LUG/H1	151-VNB-B21-4-H	MS	MS	835050	04/13/88	Y	NRI	
MST222-HW-1C SUR	P-LUG/H1	151-VNB-B21-4-H	MS	MS	835050	04/13/88	Y	NRI	
MST222-HW-1D SUR	P-LUG/H1	151-VNB-B21-4-H	MS	MS	835050	04/13/88	Y	NRI	
MST222-HW-3A SUR	P-LUG/H3	151-VNB-B21-4	MS	MS	835051	04/13/88	Y	NRI	
MST222-HW-3B SUR	P-LUG/H3	151-VNB-B21-4	MS	MS	835051	04/13/88	Y	NRI	
MST222-HW-3C SUR	P-LUG/H3	151-VNB-B21-4	MS	MS	835051	04/13/88	Y	NRI	
MST222-HW-3D SUR	P-LUG/H3	151-VNB-B21-4	MS	MS	835051	04/13/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CIID	EXAM TYPE	DESC	ISI ISO	CAL BLOCK	SYSTEM LOOP	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
RWS200-HW-1A	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1B	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1C	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1D	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1E	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1F	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1G	SUR	P-LUG/H2B	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	
RWS200-HW-1H	SUR	P-LUG	151-VRR-B31-4-H		RR B	645052	04/16/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ----	CAL BLOCK -----	SYSTEM ----- LOOP ----	EXAM NO ----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
EXAM TYPE -----									
RWS200-HW-3AA SUR	P-LUG/HB1	ISI-VRR-B31-4-H		RR B	645053	04/16/88	Y	NRI	
RWS200-HW-3AB SUR	P-LUG/HB1	ISI-VRR-B31-4-H		RR B	645053	04/16/88	Y	NRI	
RWS200-HW-3AC SUR	P-LUG/HB1	ISI-VRR-B31-4-H		RR B	645053	04/16/88	Y	NRI	
RWS200-HW-3AD SUR	P-LUG/HB1	ISI-VRR-B31-4-H		RR B	645053	04/16/88	Y	NRI	

TALLY ITEM B10.10 20
TALLY COECAT B-K-1 20

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CTO	EXAM TYPE	DESC	ISI	CAL	SYSTEM	EXAM	AN11	PROGRAM	INDICATION	NCR NO.
			150	BLOCK	LOOP	NO	SIGN-OFF	CREDIT		
HV2F006B	VT-3	VALVE INT SUR	151-DCA-207-2		CS B	088119	03/11/88	Y		NRI
HV2F050B	VT-3	VALVE INT SUR	151-DCA-210-2		RHR B	882037	03/25/88	Y		NPI
HV2F023B	VT-3	VALVE INT SUR	151-VNN-B31-4		RR B	882066	04/04/88	Y		NRI
HV2F031B	VT-3	VALVE INT SUR	151-VRR-B31-4		RR B	880236	03/28/88	Y		NRI

TALLY ITEM B12.50.4
 TALLY CDECAT B-M-2.4

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ----	DESC ----	ISI 150 ----	CAL BLOCK -----	SYSTEM ----- LOOP -----	EXAM NO ----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
EXAM TYPE -----									
N3A UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	882032	03/15/88	Y	NRI	
N3B UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	882032	03/15/88	Y	NRI	
N3C UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	882032	03/15/88	Y	NRI	
N3D UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	882032	03/15/88	Y	NRI	
N4A UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV		03/29/88	Y	NRI	
N4B UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV		03/29/88	Y	NRI	
N4C UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV		03/29/88	Y	NRI	
N4D UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV		03/28/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

C10	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
N4E UNCLAD AREAS VT-3	UNCLAD INT SURV			RPV		03/28/88	Y	NRI	
N4F UNCLAD AREAS V-3	UNCLAD INT SURF			RPV		03/28/88	Y	NRI	

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

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID ---	DESC -----	ISI 150 ---	CAL BLOCK -----	SYSTEM LOOP -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION RESOLUTION -----	NCR NO. -----
EXAM TYPE									
N2B VT-1	RISR SUP WELD A RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	
N23 VT-1	RISR SUP WELD B RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/29/88	Y	NRI	
N2C VT-1	RISR SUP WELD A RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	
N2C VT-1	RISR SUP WELD B RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	
N2D VT-1	RISR SUP WELD A RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	
N2D VT-1	RISR SUP WELD B RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	
N2E VT-1	RISR SUP WELD A RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	
N2E VT-1	RISR SUP WELD B RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NRI	

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
 ITEM NUMBER B13.20
 AS OF: 09/12/88

EXAM TYPE	DESC	151	CAL BLOCK	SYSTEM	EXAM NO	AN11 SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
N2J RISR SUP WELD A VT-1	RPV BELT ATTACH	151	RPV	LOOP		03/28/88	Y	NRI	
N2J RISR SUP WELD B VT-1	RPV BELT ATTACH	151	RPV			03/28/88	Y	NRI	
SURV SPEC BRKT 1B VT-1	RPV BELT ATTACH	151	RPV			03/29/88	Y	NRI	
SURV SPEC BRKT 2B VT-1	RPV BELT ATTACH	151	RPV			03/29/88	Y	NRI	

TALLY ITEM B13.20 12

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

CID	DESC	ISI ISD	CAL BLOCK	SYSTEM	EXAM NO	ANTI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
DAFFLE PLATE WELD VT-3	RPV ATTACH WELD	ISI-RPV-INT-001	SHT 2		RPV	03/29/88	Y	NRI	
N4A BRKT WELD A VT-3	RPV ATTACH WELD	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	
N4A BRKT WELD B VT-3	RPV ATTACH WELD	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	
N4B BRKT WELD A VT-3	RPV ATTACH WELD	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	
N4B BRKT WELD B VT-3	RPV ATTACH WELD	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	
N5A BRKT WELD A VT-3	RPV ATTACH	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	
N5A BRKT WELD B VT-3	RPV ATTACH	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	
N5A BRKT WELD C VT-3	RPV ATTACH	ISI-RPV-INT-001	SHT 1		RPV	03/29/88	Y	NRI	

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

OUTAGE SUMMARY REPORT

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

AS OF: 09/12/88

EXAM TYPE	DESC	ISI	CAL BLOCK	SVSTEM	EXAM NO	ANIT SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
								RESOLUTION	
NSB BRKT WELD A VT-3	RPV ATTACH	151		LOOP RPV		03/29/88	Y	NRI	
SURV SPEC BRKT 2A VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	
SURV SPEC BRKT 3A VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	

TALLY ITEM B13.21 11

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
ITEM NUMBER B13.22

AS OF: 05 12/88

CID ----	DESC -----	ISI 150 ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
BAFFLE PLATE VT-3	LORE SUPPORT	ISI-RPV-INT-001 SHT 2		RPV		03/29/88	Y	NR1	
SHROUD SUPPORT VT-3	CORE SUPPORT	ISI-RPV-INT-001 SHT 1&2		RPV		03/29/88	N	NR1	
TOP GUIDE VT-3	PLATE/BOLTS	ISI-RPV-INT-001 SHT 1		RPV		03/28/88	Y	NR1	

TALLY ITEM B13.22 3
TALLY CDECAT B-N-2 26

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-A
 ITEM NUMBER C1.20

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF:	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
2E-205B-15 VOL	HEAD CIRC WELD	C-199555	P-86	RHR B	496072	04/28/88	Y	GEO ACCP	

TALLY ITEM C1.20 1
 TALLY CDECAT C-A 1

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
ITEM NUMBER C3.10

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
----	----	---	BLOCK	-----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				-----				-----	
2E-205B-10 SUR	HX-INT ATTACH	C-199555		RHR	495073	03/08/88	Y	NH1	
				B					
2E-205B-10A SUR	HX-INT ATTACH	C-199555		RHR	495074	03/18/88	Y	RELV ACCPY	88-096
				B					

TALLY ITEM C3.10 2

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
 ITEM NUMBER C3.20
 AS OF: 09/12/88

C:ID	EXAM TYPE	DESC	ISI	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGM-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
GBB2012-HW3A	SUR	P-LUG/H29	151		LOOP					
			150							
						515035	03/08/88	Y	NRI	
GBB2012-HW3B	SUR	P-LUG/H29	151		CS					
			150		A					
						515035	03/08/88	Y	NRI	
GBB2012-HW3C	SUR	P-LUG/H29	151		CS					
			150		A					
						515035	03/08/88	Y	NRI	
GBB2012-HW3D	SUR	P-LUG/H29	151		CS					
			150		A					
						515035	03/08/88	Y	NRI	
DBB2141-HW5A	SUR	P-LUG/H24	151		HPCI					
			150							
						525011	04/18/88	Y	NRI	
DBB2141-HW5B	SUR	P-LUG/H24	151		HPCI					
			150							
						525011	04/18/88	Y	NRI	
DBB2141-HW5C	SUR	P-LUG/H24	151		HPCI					
			150							
						525011	04/18/88	Y	NRI	
DBB2141-HW5D	SUR	P-LUG/H24	151		HPCI					
			150							
						525011	04/18/88	Y	NRI	

RES SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
 ITEM NUMBER C3.20
 AS OF: 09/12/88

CID	EXAM TYPE	DESC	ISI	CAL BLOCK	SYSTEM	EXAM NO	AN11 SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
					LOOP				RESOLUTION	
DBB2141-1W7A	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7B	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7C	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7D	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7E	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7F	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7G	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	
DBB2141-1W7H	SUR	P-LOG/M11	151-088-214-1-M		HPCI	525012	03/14/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 1237 OF 1700 - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
 ITEM NUMBER C3.20

AS OF: 09/12/88

CID	EXAM TYPE	DESC	ISI	CAL BLOCK	SYSTEM	EXAM NO	ANI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO
DBB2031-HW3A	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3B	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3C	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3D	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3E	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3F	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3G	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	
DBB2031-HW3H	SUR	P-PLT/H03	151		MS	835006	03/25/88	Y	RESOLUTION	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
 ITEM NUMBER C3.20
 AS OF: 09/12/88

CTD	EXAM TYPE	DESC	151 150	CAL B-DCM	SYSTEM LOOP	EXAM NO	AN11 SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
DBB2031-HW31 SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3J SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3K SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3L SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3M SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3N SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3O SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	
DBB2031-HW3P SUR	P-PLT/H03	P-PLT/H03	151-088-203-1-H	MS	MS	835006	03/25/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
ITEM NUMBER C3.20

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ---	CAL BLOCK	SYSTEM	EXAM NO	ANTI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
DBB2041-HW1A SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1B SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1C SUR	P-PLT/H05	ISI-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1D SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1E SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1F SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1G SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	
DBB2041-HW1H SUR	P-PLT/H05	ISI-DBB-204-1-H		MS	835008	03/25/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
ITEM NUMBER C3.20

AS OF: 09/12/88

CTD	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	AN11 SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
DBB2041-HW11 SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1J SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1K SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1L SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1M SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1N SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1O SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	
DBB2041-HW1P SUR	P-PLT/H05	151-DBB-204-1-H		MS	835008	03/25/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
 ITEM NUMBER C3.20
 AS OF: 09/12/88

EXAM TYPE	DESC	151	CAL	SVSTEM	EXAM NO	ANII	PROGRAM	INDICATION	NCR NO.
-----	----	---	BLOCK	-----	NO	SIGN-OFF	CREDIT	-----	-----
-----	----	---	-----	LOOP	-----	-----	-----	RESOLUTION	-----
DBB2041-HW1Q SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1R SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1S SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1T SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1U SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1V SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1W SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	
DBB2041-HW1X SUR	P-PLT/H05	151-088-204-1-H	MS	MS	835008	03/25/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
ITEM NUMBER C3.20

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ----	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	-NII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
0882211-HW3A SUR	P-PLT/H04	151-088-221-1-H		RCIC	505020	03/14/88	Y	NR1	
0882211-HW3B SUR	P-PLT/H04	151-088-221-1-H		RCIC	505020	04/04/88	Y	RELV ACCP	88-104
0882211-HW3C SUR	P-PLT/H04	151-088-221-1-H		RCIC	505020	04/04/88	Y	RELV ACCP	88-104
0882211-HW3D SUR	P-PLT/H04	151-088-221-1-H		RCIC	505020	03/14/88	Y	NR1	
0882071-HW-1A SUR	P-LUG/H3	151-088-207-1-H		RHR A	495040	03/08/88	Y	NR1	
0882071-HW-1B SUR	P-LUG/H3	151-088-207-1-H		RHR A	495040	03/08/88	Y	NR1	
0882071-HW-1C SUR	P-LUG/H3	151-088-207-1-H		RHR A	495040	02/08/88	Y	NR1	
0882071-HW-1D SUR	P-LUG/H3	151-088-207-1-H		RHR A	495040	03/08/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-C
ITEM NUMBER C3.20

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
----	-----	---	BLOCK	-----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	-----
TALLY ITEM C3.20	64								
TALLY CDECAT C-C	66								

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F
ITEM NUMBER 05.11

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ----	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
HBB2082-FW-4 SUR	E-V	ISI-HBB-208-2		HPCI	525046	03/19/88	Y	NRI	
HBB2082-FW-5 SUR	V-FH	ISI-HBB-208-2		HPCI	525047	03/23/88	Y	NRI	
HBB2012-FW-14 SUR	P-E	ISI-HBB-201-2		RCIC	505041	03/14/88	Y	NRI	
HBB2012-1-A SUR	FL-T	ISI-HBB-201-2		RCIC	505042	03/23/88	Y	NRI	
HBB2012-1-C SUR	T-P	ISI-HBB-201-2		RCIC	505043	03/23/88	Y	NRI	
GBB2042-2-B SUR	E-P	ISI-GBB-204-2		RHR A	495036	03/08/88	Y	NRI	
GBB2043-1-A SUR	FL-E	ISI-GBB-204-3		RHR B	49503	03/05/88	Y	LINR ACCPY	
GBB2043-5-B SUR	P-RED	ISI-GBB-204-3		RHR B	495038	03/05/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F
ITEM NUMBER CS.11

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
GBB2044-2-B SUR	E-P	ISI-GBB-204-4		RHR B	495039	03/15/88	Y	RELV ACCP	88-095
HBB2101-FW-10 SUR	P-E	ISI-HBB-210-1		RHR A	495048	04/13/88	Y	NRI	
HBB2101-5-D SUR	RED-FL	ISI-HBB-210-1		RHR A	495049	03/05/88	Y	NRI	

TALLY ITEM CS.11 11

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F
ITEM NUMBER CS.21

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ---				RESOLUTION -----	
DBB2141-10-B VOL	P-FL	ISI-DBB-214-1	P-24	HPCI	526012	03/14/88	Y	NRI	
DBB2141-10-B SUR	P-FL	ISI-DBB-214-1		HPCI	525013	03/14/88	Y	NRI	
DBB2141-7-A VOL	P-E	ISI-DBB-214-1	P-24	HPCI	526013	03/14/88	Y	NRI	
DBB2141-7-A SUR	P-E	ISI-DBB-214-1		HPCI	525014	03/14/88	Y	NRI	
DBB2141-9-D VOL	T-P	ISI-DBB-214-1	P-24	HPCI	526014	03/1/88	Y	NRI	
DBB2141-9-D SUR	T-P	ISI-DBB-214-1		HPCI	525015	03/4/88	Y	NRI	
DBB2021-3-B SUR	RESINT-P	ISI-DBB-202-1		MS	835004	03/25/88	Y	NRI	
DBB2021-3-B VOL	RESINT-P	ISI-DBB-202-1	P-66	MS	836006	03/25/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F
ITEM NUMBER C5.21

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ----	CAL BLOCK -----	SYSTEM ----- LOOP -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
DBB2021-7-B SUR	P-E	ISI-DBL-202-1		MS	835005	03/21/88	Y	NR1	
DBB2021-7-B VOL	P-E	ISI-DBB-202-1	P-66	MS	836007	03/29/88	Y	NR1	
DBB2051-3-C VOL	SWOL-P	ISI-DBB-205-1	P-20	MS	836009	04/04/88	Y	NR1	
DBB2051-3-C SUR	SWOL-P	ISI-DBB-205-1		MS	835010	03/24/88	Y	NR1	
TALLY ITEM C5.21 :2									

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F
 ITEM NUMBER C5.31

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
0882031-B-B	P-SWOL	ISI-DBB-203--		MS	835007	03/24/88	Y	NRI	
SUR									

TALLY ITEM C-31 1
 TALLY CDECAT C-F 24

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F*
ITEM NUMBER CS.11

AS OF: 09/12/88

CID	DESC	ISI 150	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM				LOOP				RESOLUTION	
HBB2042-4-B SUR	E-FL	151-HBB-204-2		CS B	515044	03/05/88	Y	NRI	
HBB2071-3-A SUR	E-P	151-HBB-207-1		HPC1	525045	03/10/88	Y	NRI	
TALLY ITEM CS.11 2									

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY C-F*
 ITEM NUMBER C5.21

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	---	ISO	BLOCK	---	SO	SIGN-OFF	CREDIT	---	---
EXAM TYPE				LOOP				RESOLUTION	
DBB2201-3-D SUR	E-P	ISI-DBB-220-1		HPCI	525019	04/22/88	Y	LINR ACCP	88-285
DBB2201-3-D VOL	E-P	ISI-DBB-220-1	P-40	HPCI	526023	04/22/88	Y	NR1	

TALLY ITEM C5.21 2
 TALLY CDECAT C-F* 4

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY D-B
ITEM NUMBER D2.20

AS OF: 09/12/88

CTID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
HRC2011-H07-1A VT-3	H07/8 INT ATT	ISI-HRC-201-1-H		ESW B	544112	03/16/88	Y	NRI	
HRC2051-H28-1A VT-3	H28/7 INT ATT	ISI-HRC-205-1-H		ESW A	544113	03/10/88	Y	NRI	
HRC2091-H11-1A VT-3	H11/7 INT ATT	ISI-HRC-209-1-H		ESW B	544117	03/10/88	Y	NRI	

TALLY ITEM D2.20 3

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY D-B
ITEM NUMBER D2.30

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
GBC20116-H103-1A VT-3	H103/4 INT ATT	ISI-GBC-201-16-H		MS	834070	04/19/88	Y	NRI	
GBC20117-H221-1A VT-3	H221/4 INT ATT	ISI-GBC-201-17-H		MS	834073	04/19/88	Y	NRI	
GBC2015-H125-1A V1-3	H125/4 INT ATT	ISI-GBC-201-5-H		MS	834083	04/11/88	Y	NRI	
HRC2122-H16-1A VT-3	H16/1 INT ATT	ISI-HRC-212-2-H		RHR SW A	164121	03/08/88	Y	NRI	

TALLY ITEM D2.30 4

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY D-B
ITEM NUMBER D2.40

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM ----- LOOP -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----								RESOLUTION -----	
GBC20110-H36-1A VT-3	H36/4 INT ATT	ISI-GBC-201-10-H		MS	834059	04/20/88	Y	NRI	
GBC20111-H69-1A VT-3	H69/1 INT ATT	ISI-GBC-201-11-H		MS	834062	04/11/88	Y	NRI	
GBC20115-H56-1A VT-3	H56/4 INT ATT	ISI-GBC-201-15-H		MS	834067	04/20/88	Y	NRI	
GBC20118-H80-1A VT-3	H80/4 INT ATT	ISI-GBC-201-18-H		MS	834077	04/11/88	Y	NRI	
GBC2016-H43-1A VT-3	H43/4 INT ATT	ISI-GBC-201-6-H		MS	834087	04/20/88	Y	NRI	

TALLY ITEM D2.40 5
TALLY COECAT D-B 12

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY D-C
 ITEM NUMBER D3.20

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ----	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
HCC2062-H3-IA VT-3	H3/B INT ATT	ISI-HCC-206-2-H		FPC	354111	03/10/88	Y	NRI	

TALLY ITEM D3.20 1
 TALLY CDECAT D-C 1

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY F-PMP
 ITEM NUMBER F-RHP

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
2P-2020	ANCHOR BOLTS	C-199559		RHR	494129	03/08/88	Y	NRI	
VT-3				B					

TALLY ITEM F-RHP 1

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY F-PMP
ITEM NUMBER F-RIP

AS OF: 09/12/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
----	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
2P-203	ANCHOR BOLTS			RCIC	504130	03/14/88	Y	NRI	
VT-3									

TALLY ITEM F-RIP 1
TALLY CDECAT F-PMP 2

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY F-VSL
ITEM NUMBER F-RHX

AS OF: 09/12/88

CTD	DESC	ISI	CAL	SYSTEM	EXAM	ANI	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
-----				----				-----	
2E-205B/LOWER VT-3	BRACKET/STRUCT	C-199561		RHR B	882405	06/09/88	Y	NRI	

TALLY ITEM F-RHX 1

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY F-VSL
ITEM NUMBER F-RPV

AS OF: 09/12/88

CID ---	DESC -----	ISI 150 ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
ST BRKT SUP-A VT-3	STAB BRACK SUP			RPV	882393	06/07/88	Y	NRI	
ST BRKT SUP-B VT-3	STAB BRACK SUP			RPV	882394	06/07/88	Y	NRI	
15-401 VT-3	SKIRT			RPV	882395	06/20/88	Y	NRI	

TALLY ITEM F-RPV 3
TALLY CODECAT F-VSL 4

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY NCHOR
ITEM NUMBER F-ANCH

AS OF: 09/12/88

CID ----	DESC ----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
HBB2042-H-X-206B VT-3	PEN	ISI-HBB-204-2-H		CS B	514097	03/15/88	Y	NRI	
HRC2081-H56 VT-3	ANCHOR	ISI-HRC-208-1-H		ESW A	544116	03/10/88	Y	NRI	
HRC2101-H11 VT-3	ANCHOR	ISI-HRC-210-1-H		ESW B	544119	03/10/88	Y	NRI	
EBB2021-H57 VT-3	ANCHOR	ISI-EBB-202-1-H		HPCI	524037	04/18/88	Y	NRI	
GBC20126-HX-400G VT-3	FL HEAD	ISI-GBC-201-26-H		MS	834079	04/19/88	Y	NRI	
GBC20129-HX-400K VT-3	FL HEAD	ISI-GBC-201-29-H		MS	834080	04/19/88	Y	NRI	
GBC2016-HX-400C VT-3	FL HEAD	ISI-GBC-201-6-H		MS	834085	04/19/88	Y	NRI	
DBA2051-H-X10 VT-3	FL-HEAD	ISI-DRA-205-1-H		RCIC	504016	03/14/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY NCHOR
ITEM NUMBER F-ANCH

AS OF: 09/12/88

CID ----	DESC ----	ISI ISO ----	CAL BLOCK ----	SYSTEM LOOP ----	EXAM NO ----	ANTI SIGN-OFF ----	PROGRAM CREDIT ----	INDICATION RESOLUTION ----	NCR NO. ----
GB32091-H21 VT-3	ANCHOR	ISI-GBB-209-1-H		RHR B	494053	03/18/88	Y	NRI	
GBB2092-HX-204A VT-3	FL-HEAD	ISI-GBB-209-2-H		RHR A	494055	03/08/88	Y	NRI	
HBB2102-HX-203B VT-3	PEN	ISI-HBB-210-2-H		RHR B	494104	03/15/88	Y	NRI	
HBB2202-HX-203B VT-3	ANCHOR	ISI-HBB-220-2-H		RHR B	494107	03/08/88	Y	NRI	
HBB2203-HX-246A VT-3	FL HEAD	ISI-HBB-220-3-H		RHR A	494108	03/15/88	Y	NRI	
TALLY ITEM F-ANCH 13									
TALLY CODECAT NCHOR 13									

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY RIGID
ITEM NUMBER F-RIGD

AS OF: 09/12/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
VBB2022-HB VT-3	RIG HANG	ISI-VBB-202-2-H		CRD	554128	03/23/88	Y	NRI	
GBB2011-H57 VT-3	SWAY ST	ISI-GBB-201-1-H		CS A	514038	03/05/88	Y	NRI	
GBB2013-H32 VT-3	SWAY ST	ISI-GBB-201-3-H		CS A	514040	03/05/88	Y	NRI	
HBB2041-H64 VT-3	SWAY ST	ISI-HBB-204-1-H		CS A	514095	03/05/88	Y	NRI	
HRC2061-H7 VT-3	GUIDE	ISI-HRC-206-1-H		ESW B	544114	03/10/88	Y	NRI	
HRC2081-H54 VT-3	SWAY ST	ISI-HRC-208-1-H		ESW A	544115	03/15/88	Y	VISL	88-103
HRC2091-H8 VT-3	GUIDE	ISI-HRC-209-1-H		ESW B	544118	03/10/88	Y	NRI	
HRC2102-H9 VT-3	GUIDE	ISI-HRC-210-2-H		ESW B	544120	03/10/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY RIGID
ITEM NUMBER F-RIGD

AS OF: 09/12/88

CID	DESC	IS1 IS2	CAL BLOCK	SYSTEM	EXAM NO	ANIT SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
HCC2062-H3 VT-3	SWAY ST	151-HCC-206-2-H		FPC	354110	03/10/88	Y	NRI	
DBB2201-H54 VT-3	GUIDE	151-DBB-220-1-H		HPCI	524024	03/10/88	Y	NRI	
DBB2011-H19 VT-3	GUIDE	151-DBB-201-1-H		MS	834018	03/16/88	Y	NRI	
DBB2011-H8 VT-3	SWAY ST	99151-DBB-201-1-H		MS	834019	03/16/88	Y	NRI	
DBB2041-H15 VT-3	GUIDE	151-DBB-204-1-H		MS	834020	04/20/88	Y	NRI	
GBC20111-H249 VT-3	SWAY ST	151-GBC-201-11-H		MS	834061	04/20/88	Y	NRI	
GBC20114-H343 VT-3	SWAY ST	151-GBC-201-14-H		MS	834064	04/11/88	Y	NRI	
GBC20118-H118 VT-3	SWAY ST	151-GBC-201-18-H		MS	834075	04/11/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY RIGID
ITEM NUMBER F-RIGD

AS OF: 09/12/88

CID ---	DESC -----	ISI ISD ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
H882471-H52 VT-3	SWAY ST	ISI-H88-247-1-H		MSIV	834109	03/23/88	Y	NRI	
H882012-H7 VT-3	SWAY ST	ISI-H88-201-2-H		RCIC	504094	03/18/88	Y	VISL ACCPY	88-198
DCA2111-H12 VT-3	SWAY	ISI-DCA-211-1-H		RHR A	494030	04/11/88	Y	NRI	
GBB2052-H98 VT-3	RIGID	ISI-GBB-205-2-H		RHR B	494046	03/23/88	Y	NRI	
GBB2071-H2 VT-3	SWAY ST	ISI-GBB-207-1-H		RHR A	494048	03/05/88	Y	NRI	
GBB2081-H2 VT-3	SWAY ST	ISI-GBB-208-1-H		RHR A	494052	03/08/88	Y	NRI	
GBB2091-H54 VT-3	SWAY ST	ISI-GBB-209-1-H		RHR B	494054	03/05/88	Y	NRI	
GBB2092-H51 VT-3	SWAY ST	ISI-GBB-209-2-H		RHR A	494056	03/08/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY RIGID
ITEM NUMBER F-RIGD

AS OF: 09/14/88

CID ---	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM LOOP -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION RESOLUTION -----	NCR NO. -----
GBB2121-H7 VT-3	SWAY ST	ISI-GBB-212-1-H		RHR A	494057	03/24/88	Y	RI	
GBC2051-H7 VT-3	SWAY ST	ISI-GBC-205-1-H		RHR A	494093	03/08/88	Y	NRI	
HBB2101-H7 VT-3	RIG HANG	ISI-HBB-210-1-H		RHR A	494102	03/08/88	Y	NRI	
HRC2132-H4 VT-3	SWAY ST	ISI-HRC-213-2-H		RHR A	164122	03/08/88	Y	NRI	
DBA2011-H22 VT-3	SWAY ST	ISI-DBA-201-1-H		RWCU	614013	04/18/88	Y	NRI	

TALLY ITEM F-RIGD 29
TALLY CDECAT RIGID 29

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

GBB 2121-H7 - NCR being processed at this time against wa# v83526

MOOSEHAWK STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY SNUB
ITSM NUMBER F-V/34

AS OF: 09/12/88

CID ---	DESC -----	ISI ISD ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ---	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ---				RESOLUTION -----	
HBB2042-H54 VT-3	SNUB MECH	ISI-HBB-204-2-H		CS B	514098	03/05/88	Y	NRI	
HBB2042-H54 VT-4	SNUB MECH	ISI-HBB-204-2-H		CS B	514098	03/05/88	Y	NRI	
HBB2042-H63 VT-3	SNUB MECH	ISI-HBB-204-2-H		CS B	514099	03/05/88	Y	NRI	
HBB2042-H63 VT-4	SNUB MECH	ISI-HBB-204-2-H		CS B	514099	03/05/88	Y	NRI	
DLA2041-H8 VT-3	SNUB MECH	ISI-DLA-204-1-H		FW	454035	03/25/88	Y	NRI	
DLA2041-H8 VT-4	SNUB MECH	ISI-DLA-204-1-H		FW	454035	03/25/88	Y	NRI	
OBA2021-H13 VT-3	SNUB MECH	ISI-OBA-202-1-H		HPCI	524015	04/11/88	Y	NRI	
OBA2021-H13 VT-4	SNUB MECH	ISI-OBA-202-1-H		HPCI	524015	04/11/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SNUB
ITEM NUMBER F-VT34

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
EBB2021-H54 VT-3	SNUB MECH	ISI-EBB-202-1-H		HPCI	524036	03/16/88	Y	NRI	
EBB2021-H54 VT-4	SNUB MECH	ISI-EBB-202-1-H		HPCI	524036	03/16/88	Y	NRI	
DBB2011-H16 VT-3	SNUB MECH	ISI-DBB-201-1-H		MS	834017	03/25/88	Y	NRI	
DBB2011-H16 VT-4	SNUB MECH	ISI-DBB-201-1-H		MS	834017	03/25/88	Y	NRI	
DBB2052-H5 VT-3	SNUB MECH	ISI-DBB-205-2-H		MS	834021	04/20/88	Y	NRI	
DBB2052-H5 VT-4	SNUB MECH	ISI-DBB-205-2-H		MS	834021	04/20/88	Y	NRI	
GBC20111-H245 VT-3	SNUB MECH	ISI-GBC-201-11-H		MS	834060	04/19/88	Y	NRI	
GBC20111-H245 VT-4	SNUB MECH	ISI-GBC-201-11-H		MS	834060	04/19/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SNUB
ITEM NUMBER F-VT34

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANTI SIGN-G-F	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
GBC20115-H190 VT-3	SNUB MECH	151-GBC-201-15-H		MS	834066	04/07/88	Y	NRI	
GBC20115-H190 VT-4	SNUB MECH	151-GBC-201-15-H		MS	834066	04/07/88	Y	NRI	
GBC20116-H103 VT-3	SNUB MECH	151-GBC-201-16-H		MS	834069	04/20/88	Y	NRI	
GBC20116-H103 VT-4	SNUB MECH	151-GBC-201-16-H		MS	834069	04/20/88	Y	NRI	
GBC20117-H200 VT-3	SNUB MECH	151-GBC-201-17-H		MS	834072	04/20/88	Y	NRI	
GBC20117-H200 VT-4	SNUB MECH	151-GBC-201-17-H		MS	834072	04/20/88	Y	NRI	
GBC20119-H228 VT-3	SNUB MECH	151-GBC-201-19-H		MS	834078	04/22/88	Y	NRI	
GBC20119-H228 VT-4	SNUB MECH	151-GBC-201-19-H		MS	834078	04/22/88	Y	VISE ACCP	88-271

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

SUSQUEHANNA STEAM ELECTRIC STATION
LIST OF EXAMS - SECOND REFUEL

OUTAGE SUMMARY REPORT

CODE CATEGORY SNUB
ITEM NUMBER F-VT34

AS OF: 09/12/88

CID ---	DESC ----	ISI ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANIL SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
GBC2015-H121 VT-3	SNUB MECH	ISI-GBC-201-5-H		MS	834082	04/07/88	Y	NRI	
GBC2015-H121 VT-4	SNUB MECH	ISI-GBC-201-5-H		MS	834082	04/07/88	Y	NRI	
GBC2016-H272 VT-3	SNUB MECH	ISI-GBC-201-6-H		MS	834086	04/20/88	Y	NRI	
GBC2016-H272 VT-4	SNUB MECH	ISI-GBC-201-6-H		MS	834086	04/20/88	Y	NRI	
GBC2019-H154 VT-3	SNUB MECH	ISI-GBC-201-9-H		MS	834090	04/11/88	Y	NRI	
GBC2019-H154 VT-4	SNUB MECH	ISI-GBC-201-9-H		MS	834090	04/11/88	Y	NRI	
MST222-H30 VT-3	SNUB MECH	ISI-VNB-B21-4-H		MS	834123	04/20/88	Y	NRI	
MST222-H30 VT-4	SNUB MECH	ISI-VNB-B21-4-H		MS	834123	04/20/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

WUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

COJC CATEGORY SNUB
ITEM NUMBER F-VT34

AS OF: 09/12/88

CTD ----	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM ----- LOOP -----	EXAM NO -----	ANIL SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
MST222-H36 VT-3	SNUB MECH	ISI-VNB-B21-3-H		MS	834124	04/23/88	Y	NRI	
MST222-H36 VT-4	SNUB MECH	ISI-VNB-B21-3-H		MS	834124	04/23/88	Y	NRI	
MST222-H44 VT-3	SNUB MECH	ISI-VNB-B21-3-H		MS	834125	04/13/88	Y	NRI	
MST222-H44 VT-4	SNUB MECH	ISI-VNB-B21-3-H		MS	834125	04/13/88	Y	NRI	
MST222-H48 VT-3	SNUB MECH	ISI-VNB-B21-4-H		MS	834126	04/20/88	Y	NRI	
MST222-H48 VT-4	SNUB MECH	ISI-VNB-B21-4-H		MS	834126	04/20/88	Y	NRI	
DCA2101-H12 VT-3	SNUB MECH	ISI-DCA-210-1-H		RHR A	494027	03/23/88	Y	NRI	
DCA2101-H12 VT-4	SNUB MECH	ISI-DCA-210-1-H		RHR A	494027	03/23/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SNUB
ITEM NUMBER F-VT34

AS OF: 09/14/88

CID ----	DESC ----	ISI 150 ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
DCA2101-H35 VT-3	SNUB MECH	ISI-DCA-210-1-H		RHR A	494028	03/29/88	Y	RI	
DCA2101-H35 VT-4	SNUB MECH	ISI-DCA-210-1-H		RHR A	404028	03/29/88	Y	NRI	
DCA2102-H23 VT-3	SNUB MECH	ISI-DCA-210-2-H		RHR B	494029	04/13/88	Y	NRI	
DCA2102-H23 VT-4	SNUB MECH	ISI-DCA-210-2-H		RHR B	494029	04/13/88	Y	NRI	
DCA2112-H20 VT-3	SNUB MECH	ISI-DCA-211-2-H		RHR A	494031	04/11/88	Y	NRI	
DCA2112-H20 VT-4	SNUB MECH	ISI-DCA-211-2-H		RHR A	494031	04/11/88	Y	NRI	
GBB2043-H24 VT-3	SNUB MECH	ISI-GBB-204-3-H		RHR B	494043	03/08/88	Y	NRI	
GBB2043-H24 VT-4	SNUB MECH	ISI-GBB-204-3-H		RHR B	494043	03/08/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

DCA 2101-H35 - NCR being processed at this time against wa# v83530

SUSQUEHANNA 5.4M ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

LODE CATEGORY SNUB
 ITEM NUMBER F-VT34
 AS OF: 09/12/88

EXAM TYPE	DESC	ISI	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
HBB2101-H2 VT-3	SNUB MECH	151-HBB-210-1-H		LOOP RHR A	494101	03/05/88	Y	NRI	
HBB2101-H2 VT-4	SNUB MECH	151-HBB-201-1-H		RHR A	494101	03/05/88	Y	NRI	
HBB2112-H33 VT-3	SNUB MECH	151-HBB-211-2-H		RHR B	494106	03/18/88	Y	NRI	
HBB2112-H33 VT-4	SNUB MECH	151-HBB-211-2-H		RHR B	494106	03/18/88	Y	NRI	
SPOCA2021-H2600 VT-3	SNUB MECH	151-OCA-202-1-H		RR B	644127	03/25/88	Y	NRI	
SPOCA2021-H2600 VT-4	SNUB MECH	151-OCA-202-1-H		RR B	644127	03/25/88	Y	NRI	
DBA2012-H16 VT-3	SNUB MECH	151-DBA-201-2-H		RWCU	614014	04/13/88	Y	NRI	
DBA2012-H16 VT-4	SNUB MECH	151-DBA-201-2-H		RWCU	614014	04/18/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SNUB
ITEM NUMBER F-VT34

AS OF: 09/12/88

CID	DESC	ISI	CAI	SYSTEM	EXAM	ANII	PROGRAM	INDICATION	NCR NO.
---	----	---	BLOCK	---	NO	SIGN-OFF	CREDIT	---	---
EXAM TYPE				LC 7P				RESOLUTION	
-----				----				-----	
DCA2021-H7 VT-3	SNUB MECH	151-DCA-202-1-H		RWCU	614026	04/18/88	Y	NRI	
DCA2021-H7 VT-4	SNUB MECH	151-DCA-202-1-H		RWCU	614026	04/18/88	Y	NRI	

TALLY ITEM F-VT34 58
TALLY CDECAT SNUB 58

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS OF: 09/12/88

CTD	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
GBB2012-H29 VT-3	VAR SUP	ISI-GBB-201-2-H		CS A	514039	04/11/88	Y	NRI	
GBB2012-H29 VT-4	VAR SUP	ISI-GBB-201-2-H		CS A	514039	04/11/88	Y	VISL ACCPY	88-222
HBB2041-H8 VT-3	VAR SUP	ISI-HBB-204-1-H		CS A	514096	03/05/88	Y	NRI	
HBB2041-H8 VT-4	VAR SUP	ISI-HBB-204-1-H		CS A	514096	03/05/88	Y	NRI	
DBB2141-H24 VT-3	VAR SUP	ISI-DBB-214-1-H		HPCI	524022	03/18/88	Y	VISL ACCPY	88-199
DBB2141-H24 VT-4	VAR SUP	ISI-DBB-214-1-H		HPCI	524022	03/18/88	Y	NRI	
DBB2201-H16 VT-3	VAR SUP	ISI-DBB-220-1-H		HPCI	524023	03/23/88	Y	NRI	
DBB2201-H16 VT-4	VAR SUP	ISI-DBB-220-1-H		HPCI	524023	03/23/88	Y	VISL ACCPY	88-141

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS OF: 09/14/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
HBB2071-H63 VT-3	VAR SUP	ISI-HBB-207-1-H		HPCI	524100	03/24/88	Y	*RI	
HBB2071-H63 VT-4	VAR SUP	ISI-HBB-207-1-H		HPCI	524100	03/24/88	Y	NRI	
DBB2291-H3 VT-3	VAR SUP	ISI-DBB-229-1-H		MS	834025	03/24/88	Y	NRI	
DBB2291-H3 VT-4	VAR SUP	ISI-DBB-229-1-H		MS	834025	03/24/88	Y	VISL ACCP	88-172
GBC20113-H72 VT-3	VAR SUP	ISI-GBC-201-13-H		MS	834063	04/07/88	Y	NRI	
GBC20113-H72 VT-4	VAR SUP	ISI-GBC-201-13-H		MS	834063	04/07/88	Y	NRI	
GBC20114-H75 VT-3	VAR SUP	ISI-GBC-201-14-H		MS	834065	04/20/88	Y	NRI	
GBC20114-H75 VT-4	VAR SUP	ISI-GBC-201-14-H		MS	834065	04/20/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

HBB 2071-H63 - NCR being processed at this time against wa# v83525

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS OF: 09/12/88

CID ----	DESC -----	ISI 150 ---	CAL BLOCK -----	SYSTEM -----	EXAM NO -----	ANTI SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP -----				RESOLUTION -----	
GBC20115-H57 VT-3	VAR SUP	151-GBC-201-15-H		MS	834068	04/11/88	Y	NRI	
GBC20115-H57 VT-4	VAR SUP	151-GBC-201-15-H		MS	834068	04/11/88	Y	NRI	
GBC20116-H78 VT-3	VAR SUP	151-GBC-201-16-H		MS	834071	04/23/88	Y	NRI	
GBC20116-H78 VT-4	VAR SUP	151-GBC-201-16-H		MS	834071	04/23/88	Y	VISL ACCP	88-270
GBC20117-H52 VT-3	VAR SUP	151-GBC-201-17-H		MS	834074	04/23/88	Y	NRI	
GBC20117-H52 VT-4	VAR SUP	151-GBC-201-17-H		MS	834074	04/23/88	Y	VISL ACCP	88-268
GBC20118-H322 VT-3	VAR SUP	151-GBC-201-18-H		MS	834076	04/20/88	Y	NRI	
GBC20118-H322 VT-4	VAR SUP	151-GBC-201-18-H		MS	834076	04/20/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES; COMMENTS; ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS GP: 09/12/88

CID ----- EXAM TYPE -----	DESC -----	ISI ISO ----	CAL BLOCK -----	SYSTEM ----- LOOP -----	EXAM NO -----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION ----- RESOLUTION -----	NCR NO. -----
GBC2014-H34 VT-3	VAR SUP	ISI-GBC-201-4-H		MS	834081	04/11/88	Y	NRI	
GBC2014-H34 VT-4	VAR SUP	ISI-GBC-201-4-H		MS	834081	04/11/88	Y	NRI	
GBC2015-H62 VT-3	VAR SUP	ISI-GBC-201-5-H		MS	834084	04/19/88	Y	NRI	
GBC2015-H62 VT-4	VAR SUP	ISI-GBC-201-5-H		MS	834084	04/19/88	Y	NRI	
GBC2016-H44 VT-3	VAR SUP	ISI-GBC-201-6-H		MS	834088	04/20/88	Y	NRI	
GBC2016-H44 VT-4	VAR SUP	ISI-GBC-201-6-H		MS	834088	04/20/88	Y	NRI	
GBC2018-H42 VT-3	VAR SUP	ISI-GBC-201-8-H		MS	834089	04/23/88	Y	NRI	
GBC2018-H42 VT-4	VAR SUP	ISI-GBC-201-8-H		MS	834089	04/23/88	Y	VISL ACCP	88-269

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS OF: 09/12/88

CID	DESC	ISI ISO	CAL BLOCK	SYSTEM	EXAM NO	ANLI SIGN-OFF	PROGRAM CREDIT	INDICATION	NCR NO.
EXAM TYPE				LOOP				RESOLUTION	
GBC2019-H334 VT-3	VAR SUP	ISI-GBC-201-9-H		MS	834091	04/23/88	Y	NRI	
GBC2019-H334 VT-4	VAR SUP	ISI-GBC-201-9-H		MS	834091	04/23/88	Y	VISL ACCPY	88-274
DCA2112-HB VT-3	VAR SUP	ISI-DCA-211-2-H		RHR A	494032	04/19/88	Y	NRI	
DCA2112-HB VT-4	VAR SUP	ISI-DCA-211-2-H		RHR A	494032	04/19/88	Y	VISL ACCPY	88-229
GBB2041-H7 VT-3	VAR SUP	ISI-GBB-204-1-H		RHR A	494041	03/23/88	Y	NRI	
GBB2041-H7 VT-4	VAR SUP	ISI-GBB-204-1-H		RHR A	494041	03/23/88	Y	VISL ACCPY	88-137
GBB2042-H100 VT-3	VAR SUP	ISI-GBB-204-2-H		RHR A	494042	03/23/88	Y	NRI	
GBB2042-H100 VT-4	VAR SUP	ISI-GBB-204-2-H		RHR A	494042	03/23/88	Y	VISL ACCPY	88-138

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS OF: 09/12/88

CID ----	DESC -----	ISI ISO ---	CAL BLOCK -----	SYSTEM -----	EXAM NO ----	ANII SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION -----	NCR NO. -----
EXAM TYPE -----				LOOP ----				RESOLUTION -----	
GBB2044-H19 VT-3	VAR SUP	ISI-GBB-204-4-H		RHR B	494044	03/23/88	Y	NRI	
GBB2044-H19 VT-4	VAR SUP	ISI-GBB-204-4-H		RHR B	494044	03/23/88	Y	VISL ACCP	88-140
GBB2044-H88 VT-3	VAR SUP	ISI-GBB-204-4-H		RHR B	494045	03/23/88	Y	VISL ACCP	88-139
GBB2044-H88 VT-4	VAR SUP	ISI-GBB-204-4-H		RHR B	494045	03/23/88	Y	VISL ACCP	88-139
GBB2052-H98 VT-4	RIGID	ISI-GBB-205-2-H		RHR B	494046	03/23/88	Y	VISL ACCP	88-135
GBB2061-H57 VT-3	VAR SUP	ISI-GBB-206-1-H		RHR A	494047	03/23/88	Y	VISL ACCP	88-142
GBB2061-H57 VT-4	VAR SUP	ISI-GBB-206-1-H		RHR A	494047	03/23/88	Y	VISL ACCP	88-142
GBB2072-H25 VT-3	VAR SUP	ISI-GBB-207-2-H		RHR B	494049	03/23/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

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

OUTAGE SUMMARY REPORT

CODE CATEGORY SPRNG
ITEM NUMBER F-SPR

AS OF: 09/12/88

CID ---	DESC -----	ISI 750 ---	CAL BLOCK -----	SYSTEM LOOP -----	EXAM NO -----	AN11 SIGN-OFF -----	PROGRAM CREDIT -----	INDICATION RESOLUTION -----	NCR NO. -----
EXAM TYPE -----									
GBB2072-H25 VT-4	VAR SUP	ISI-GBB-207-2-H		RHR B	494049	03/23/88	Y	VISL ACCP	88-136
HBB2101-H9 VT-3	VAR SUP	ISI-HBB-210-1-H		RHR A	494103	03/05/88	Y	NRI	
HBB2101-H9 VT-4	VAR SUP	ISI-HBB-210-1-H		RHR A	494103	03/05/88	Y	NRI	
HBB2111-H28 VT-3	VAR SUP	ISI-HBB-211-1-H		RHR B	494105	04/19/88	Y	NRI	
HBB2111-H28 VT-4	VAR SUP	ISI-HBB-211-1-H		RHR B	494105	04/19/88	Y	VISL ACCP	88-155

TALLY ITEM F-SPR 53
TALLY CODECAT SPRNG 53

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SECTION XI
CODE
COMPLIANCE
SUMMARY

APPENDIX B.1

CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC
AUG1	AUG1	X-E01	122	45	45
AUG2	AUG2	X-CATB	59	23	22
		X-CATC	20	6	6
AUG3	AUG3	X-AUG3A	18	18	18
		X-AUG3B	6	0	0
		X-AUG3C	2	0	0
B-A	B1.11	X-E01	10	4	2
	B1.12	X-E01	13	0	0
	B1.21	X-E01	1	0	0
		X-ID	1	1	1
	B1.22	X-E01	8	0	0
		X-ID	6	3	2
	B1.30	Z	1	1	1
	B1.40	Z	2	2	2
B-D	B3.100	Z	30	12	11
	B3.90	Z	30	10	10
B-E	B4.11	X-ID	1	0	0
	B4.12	X-ID	46	15	15
	B4.13	X-ID	15	5	5
B-F	B5.10	Z	34	10	10

APPENDIX B.1

CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 USES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PFR SCHED	1ST PER P/C REC
B-F	85.130	X-10	16	4	4
B-G-1	86.10	X-E01	76	0	0
	86.180	X-E01	16	0	0
	86.190	X-D	32	0	0
	86.20	X-E01	76	27	27
	86.200	X-D	32	0	0
	86.30	X-E01	152	0	0
	86.40	X-D	76	0	0
	86.50	X-D	76	0	0
B-G-2	87.50	X-10	25	8	4
	87.70	X-10	52	15	14
	87.80	X-D	185	48	48
B-H	88.10	X-10	9	3	3
B-J	89.11	X-10	288	100	100
	89.12	X-10	96	45	28
	89.21	X-10	4	1	1
	89.31	X-10	18	4	4
	89.40	X-10	15	5	5
B-K-1	810.10	X-10	92	32	32
B-L-2	812.20	X-D	1	0	0

APPENDIX B.1

CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC
B-M-2	B12.50	X-D	27	8	7
B-N-1	B13.10	X-RO*	198	188	188
B-N-2	B13.20	X-E01	23	16	16
	B13.21	X-E01	48	19	15
	B13.22	X-D	370	0	0
		X-E01	20	3	2
B-O	B14.10	X-E01	8	0	0
C-A	C1.10	X-ID	1	0	0
	C1.20	X-ID	1	1	1
C-B	C2.21	X-ID	4	0	0
	C2.22	X-ID	2	0	0
C-C	C3.10	X-ID	8	2	2
	C3.20	X-ID	344	123	123
C-F	C5.11	X-ID	63	22	22
	C5.21	X-ID	113	34	34
	C5.31	X-ID	7	2	2
C-F*	C5.11	X-ID	13	4	4
	C5.21	X-ID	22	6	6
C-G	C6.10	X-ID	33	12	11
D-B	D2.20	X-ID	19	6	6

APPENDIX B.1
 CODE COMPLIANCE SUMMARY - SECTION XI EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC
D-B	D2.30	K-1D	28	9	9
	D2.40	K-1D	34	11	11
D-C	D3.20	K-1D	6	2	2
	D3.30	K-1C	1	0	0
	D3.40	K-1D	2	0	0
F-PMP	F-CSP	K-1D	1	1	1
	F-MIP	K-1D	2	0	0
	F-RCP	K-1D	16	4	4
	F-RMP	K-1D	1	1	1
	F-RIP	K-1D	1	1	1
	F-RSP	K-1D	1	0	0
F-TRB	F-MIT	K-1D	1	0	0
	F-RIT	K-1D	1	0	0
F-VSL	F-RHX	K-1D	2	1	1
	F-RPV	K-1D	9	3	3
	F-SSTM	K-1D	2	0	0
NCHOR	F-ANCH	K-1P	26	26	26
	X-2P		26	0	0
	X-3P		25	0	0
RIGID	F-RIGD	X-1P	59	59	59

APPENDIX B.1

CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 USES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC
RIGID	F-RIGD	X-2P	59	0	0
		X-3P	58	0	0
SNUB	F-VT34	X-1P	114	114	114
		X-2P	110	0	0
		X-3P	108	0	0
SPRNG	F-SPR	X-1P	110	110	110
		X-2P	110	0	0
		X-3P	116	0	0
TOTAL			4115	1235	1201

APPENDIX B.1
 CODE COMPLIANCE SUMMARY -- SECTION K1 EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER REC	% 1ST PER OVER
AUG1	AUG1	K-E01	122	45	45	36.89
AUG2	AUG2	K-CATB	59	23	22	37.29
		K-CATC	20	6	6	30.00
AUG3	AUG3	K-AUG3A	18	18	18	100.00
		K-AUG3B	6	0	0	.00
		K-AUG3C	2	0	0	.00
B-A	B1.11	K-E01	10	4	2	20.00
	B1.12	K-E01	13	0	0	.00
	B1.21	K-E01	1	0	0	.00
		K-10	1	1	1	100.00
	B1.22	K-E01	8	0	0	.00
		K-10	6	3	2	33.33
	B1.30	Z	1	1	1	100.00
	B1.40	Z	2	2	2	100.00
B-D	B3.100	Z	30	12	11	36.67
	B3.90	Z	30	10	10	33.33
B-E	B4.11	K-10	1	0	0	.00
	B4.12	K-10	46	15	15	32.61
	B4.13	K-10	15	5	5	33.33
B-F	B5.10	Z	34	10	10	29.41

APPENDIX B.1
 CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC	% 1ST PER OVER 1ST INT
B-F	85.130	X-10	16	4	4	25.00
B-G-1	86.10	X-E01	76	0	0	.00
	86.180	X-E01	16	0	0	.00
	86.190	X-D	32	0	0	.00
	86.20	X-E01	76	27	27	35.53
	86.200	X-D	32	0	0	.00
	86.30	X-E01	152	0	0	.00
	86.40	X-D	76	0	0	.00
	86.50	X-D	76	0	0	.00
B-G-2	87.50	X-10	25	8	4	16.00
	87.70	X-10	52	15	14	26.92
	87.80	X-D	185	43	48	25.95
B-H	88.10	X-10	9	3	3	33.33
B-J	89.11	X-10	288	100	100	34.72
	89.12	X-10	96	45	28	29.17
	89.21	X-10	4	1	1	25.00
	89.31	X-10	18	4	4	22.22
	89.40	X-10	15	5	5	33.33
B-K-1	B10.10	X-10	92	32	31	34.78
B-L-2	B12.20	X-D	1	0	0	.00

APPENDIX B.1
 CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHD	1ST PER REC	% 1ST PER OVER
B-M-2	B12.50	X-D	27	8	7	25.93
B-N-1	B13.10	X-R0*	198	188	188	94.95
B-N-2	B13.20	X-E01	23	16	16	69.57
B-N-2	B13.21	X-E01	48	19	15	31.25
B-N-2	B13.22	X-D	370	0	0	.00
B-N-2	B13.22	X-E01	20	3	2	10.00
B-O	B14.10	X-E01	8	0	0	.00
C-A	C1.10	X-10	1	0	0	.00
C-A	C1.20	X-10	1	1	1	100.00
C-B	C2.21	X-10	4	0	0	.00
C-B	C2.22	X-10	2	0	0	.00
C-C	C3.10	X-10	8	2	2	25.00
C-C	C3.20	X-10	344	123	123	35.76
C-F	C5.11	A-10	63	22	22	34.92
C-F	C5.21	X-10	113	34	34	30.09
C-F	C5.31	X-10	7	2	2	28.57
C-F*	C5.11	X-10	13	4	4	30.77
C-F	C5.21	X-10	22	6	6	27.27
C-G	C6.10	X-10	33	12	11	33.33
D-B	D2.20	X-10	19	6	6	31.58

APPENDIX B.1
 CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 LAD ~ FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)

(SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC	% 1ST PER OVER 1ST INT
D-3	D2.30	K-1D	28	9	9	32.14
	D2.40	K-1D	34	11	11	32.35
D-C	D3.20	K-1D	6	2	2	33.33
	D3.30	K-1D	1	0	0	.00
	D3.40	K-1D	2	0	0	.00
F-PMP	F-CSP	K-1D	1	1	1	100.00
	F-MIP	K-1D	2	0	0	.00
	F-RCP	K-1D	16	4	4	25.00
	F-RHP	K-1D	1	1	1	100.00
	F-RIP	K-1D	1	1	1	100.00
	F-RSP	K-1D	1	0	0	.00
F-TNB	F-MIY	K-1D	1	0	0	.00
	F-RIT	K-1D	1	0	0	.00
F-VSL	F-RHX	K-1D	2	1	1	50.00
	F-RPV	K-1D	9	3	3	33.33
	F-SSTA	K-1D	2	0	0	.00
NCHOR	F-ANCH	X-1P	26	26	26	100.00
	X-2P	K-2P	26	0	0	.00
	X-3P	K-3P	25	0	0	.00
RIGID	F-RIGD	X-1P	59	59	59	100.00

APPENDIX B
 CODE COMPLIANCE SUMMARY -- SECTION XI EXAMS INCLUDING AUGMENTED
 SSES UNIT 2 END OF FIRST PERIOD (1ST & 2ND REFUEL OUTAGES)
 (SYSTEM PRESSURE TESTS NOT INCLUDED)

REPORT DATE: 09/12/88

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	1ST PER SCHED	1ST PER P/C REC	% 1ST PER OVER
RIGID	F-RIGD	K-2P	58	0	0	.00
		K-3P	58	0	0	.00
SHUB	F-VT3A	X-1P	114	114	114	100.00
		X-2P	110	0	0	.00
		X-3P	108	0	0	.00
SPRNG	F-SPR	K-1P	110	110	110	100.00
		X-2P	110	0	0	.00
		X-3P	116	0	0	.00
TOTAL			415	1235	1201	*****

SNUBBER
FUNCTIONAL
TEST

DETAILED
LISTING

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWD NUM						
REMARKS													
COMMENTS													
DBA 201H 1	19392		3			1	Y70965 C78306	03/24/88	03/24/88	03/28/88	P	03/28/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBA 201H 2	20840		1			1	Y70965 C78306	03/24/88	03/24/88	03/28/88	P	03/28/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBA 201H 2		20839		1		1	Y70965 C78306	03/24/88	03/24/88	03/28/88	P	03/28/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBA 201H 5	19532		3			1	Y70965 C78306	03/24/88	03/24/88	03/28/88	P	03/28/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBA 201H 8	12954		10		5	1	Y70929 C78306	03/14/88	03/14/88	03/14/88	P	03/14/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													

*** NOTES ***

K = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
SYS SYSTEM DESCRIPTION												
REMARKS												
COMMENTS												
DBA 201H 11	19513	3			1	V70965	04/13/88	04/13/88	04/14/88	P	0	4/88 Z
261A RWCU BULK						C78306						
RMVD PER SNUB RED PROG												
DBA 201H 12	20402	1			1	V70965	04/13/88	04/13/88	04/13/88	D	04/15/88	04/20/88
261A RWCU BULK						C78306						
REPL W/19820												
SZ 3 FROM DBA 201 H 24 PER SNUB RED PROG												
DBA 201H 14	19459	3			1	V70965	04/13/88	04/13/88	04/14/88	P	04/14/88	Z
261A RWCU BULK						C78306						
RMVD PER SNUB RED PROG												
DBA 201H 15	14416				10	V70965	04/13/88	04/13/88	04/14/88	P	04/14/88	Z
261A RWCU BULK						C78306						
ONLY S/N 14416 RMVD PER SNUB RED PROG												
DBA 201H 17	20831	1			1	V70965	04/13/88	04/13/88	04/13/88	P	04/13/88	Z
261A RWCU BULK						C78306						
RMVD PER SNUB RED PROG												

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM				FAIL	WYLE	
REMARKS													
DBA 201H 17		20830	1			1	V70965 C78306	04/13/88	04/13/88	04/13/88	F	04/13/88	Z
261A RWCU BULK													
NOT REPLD SD													
RMVD PER SUB RED PROG		NCR 88-0287											
DBA 201H 18		20835	1			1	V70965 C78306	04/14/88	04/14/88	04/14/88	P	04/14/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBA 201H 21		19785	3			1	V70965 C78306	04/14/88	04/14/88	04/15/88	P	04/15/88	Z
261A RWCU BULK													
ONLY S/N 19785 RMVD PER SNUB RED PROG													
DBA 201H 24		19822	3			1	V70965 C78306	04/13/88	04/13/88	04/14/88	P	04/14/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBA 202H 8		03283	35	5		1	V70940	03/11/88	03/11/88	03/11/88	P	03/11/88	03/24/88
283 MAIN STEAM BULK													

*** NOTES ***

X = "TESTED OUT" - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SYS	SNUBBER ID	SERIAL	SERIALZ	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	RCINSTLD
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
REMARKS	DESCRIPTION													
DBA 202H 12	03222		35	5	1	Y70940	03/14/88	03/14/88	03/14/88	F	03/16/88	03/24/88		
283 MAIN STEAM BULK														
REPL W/09450														
NCR 88-0119														
DBA 208H 15	19506		3	5	1	V70933	03/12/88	03/12/88	03/12/88	P	03/12/88	03/16/88		
283 MAIN STEAM BULK														
DBB 201H 3	01309		35		2	V80516	04/19/88	04/19/88	04/20/88	P	04/20/88	04/22/88		
283 MAIN STEAM BULK														
DBB 201H 3	01306			35	2	V80516	04/19/88	04/19/88	04/20/88	P	04/20/88	04/22/88		
283 MAIN STEAM BULK														
DBB 201H 4	12625		35	F	2	V70459	03/24/88	03/24/88	03/28/88	P	03/28/88	04/02/88		
283 MAIN STEAM BULK														

*** NOTES ***

- X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN
- Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
SY5	SYSTEM DESCRIPTION	ORIGIN	NO	DATE	NO	DATE	FAIL	WYLE	DATE
REMARKS	-----	-----	-----	-----	-----	-----	-----	-----	-----
COMMENTS	-----	-----	-----	-----	-----	-----	-----	-----	-----
DBB 201H 4	02675	F	2	V0459	03/24/88	03/28/88	P	03/28/88	04/02/88
283 MAIN STEAM BULK									
NCB 88-0228									
DBB 201H 6	03059		2	V80515	04/18/88	04/18/88	D	04/21/88	04/21/88
283 MAIN STEAM BULK									
REPL W704567									
NCB 88-0232									
DBB 201H 7			2	V80515	04/18/88	04/18/88	P	04/18/88	04/21/88
283 MAIN STEAM BULK									
NCB 88-0232									
DBB 201H 10			2	V80516	04/19/88	04/19/88	P	04/19/88	04/22/88
283 MAIN STEAM BULK									
DBB 201H 10			2	V80515	04/18/88	04/18/88	P	04/18/88	04/21/88
283 MAIN STEAM BULK									

*** NOTES ***

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- V + DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
SVS	SYSTEM DESCRIPTION	---	---	---	---	---	---	FAIL	WYLE	---
REMARKS	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

DBB 201H 10	01152	35	2	V70901	03/22/88	03/22/88	03/23/88	~	03/23/88	03/28/88
283 MAIN STEAM BULK										
NCR 88-0177										

DBB 201H 11	04121	10	2	V80516	04/19/88	04/19/88	04/19/88	P	04/19/88	04/22/88
283 MAIN STEAM BULK										

DBB 201H 11	02595	10	2	V80516	04/19/88	04/19/88	04/19/88	D	04/21/88	04/22/88
283 MAIN STEAM BULK										
REPL W/14412										

DBB 201H 13	01300	35	2	V70901	03/22/88	03/22/88	03/23/88	P	03/23/88	03/25/88
283 MAIN STEAM BULK										
NCR 88-0265										

DBB 201H 16	06625	3	2	V80516	04/19/88	04/19/88	04/19/88	F	04/21/88	04/22/88
283 MAIN STEAM BULK										
REPL W/03516										
NCR 88-0310										

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ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11 13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
-----	-----	---	-----	---	---	-----	---	-----	-----	-----	-----	-----	-----	-----
REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS
DBB 201H 16	06824	3	MAIN STEAM BULK	2	Y80516	04/19/88	04/19/88	04/19/88	04/19/88	F	04/19/88	04/22/88		
283 MAIN STEAM BULK														
REPL W/04642														
NCR 88-0311														
DBB 201H 17		3	MAIN STEAM BULK	2	Y80515	04/18/88	04/18/88	04/18/88	04/18/88	F	04/21/88	04/22/88		
283 MAIN STEAM BULK														
REPL W/00467														
NCR 88-0233														
DBB 201H 24		100	MAIN STEAM BULK	2	V70901	03/24/88	03/24/88	03/24/88	03/24/88	F	03/29/88	03/30/88		
283 MAIN STEAM BULK														
REPL W/00524														
NCR 88-0180														
DBB 202H 3		35	MAIN STEAM BULK	2	Y80516	04/19/88	04/19/88	04/19/88	04/19/88	P	04/20/88	04/22/88		
283 MAIN STEAM BULK														
DBB 202H 3	09458	35	MAIN STEAM BULK	2	Y80516	04/19/88	04/19/88	04/19/88	04/19/88	P	04/20/88	04/22/88		
283 MAIN STEAM BULK														

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151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT --- REPORT 7

SNUBBER ID	SERIAL	S-1	S-2	ORIGIN	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS	REL. BY	REINSTLD
SVS	SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	FAIL	WYLE	---
REMARKS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
COMMENTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DBB 202H 4	01156	35			2	V80515	04/16/88	04/16/88	04/16/88	P	04/16/88	P	04/16/88	04/22/88
283 MAIN STEAM BULK														
NCR 88-0234														
DBB 202H 4	01159	35			2	V80515	04/16/88	04/16/88	04/16/88	F	04/19/88	F	04/19/88	04/22/88
283 MAIN STEAM BULK														
REPL W/09485														
NCR 88-0234														
DBB 202H 6	02569	10			2	V80515	04/18/88	04/18/88	04/18/88	D	04/21/88	D	04/21/88	04/21/88
283 MAIN STEAM BULK														
REPL W/04273														
DBB 202H 6	02573	10			2	V80515	04/18/88	04/18/88	04/18/88	D	04/21/88	D	04/21/88	04/21/88
283 MAIN STEAM BULK														
REPL W/14185														
NCR 88-0236														
DBB 202H 7	02475	3			2	V80515	04/18/88	04/14/88	04/18/88	P	04/18/88	P	04/18/88	04/21/88
283 MAIN STEAM BULK														
NCR 88-0237														

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ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SER' .2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYL	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 202H 7 283 MAIN STEAM BULK REPL W/19461 NCR 88-0237		02476		3		2	Y80515	04/18/88	04/18/88	04/18/88	F	04/19/88	04/21/88
DBB 2J2H 10 283 MAIN STEAM BULK			35			2	Y80516	04/19/88	04/19/88	04/20/88	P	04/20/88	04/22/88
DBB 202H 10 283 MAIN STEAM BULK		027		35		2	Y70901	03/22/88	03/22/88	03/23/88	P	02/23/88	03/25/88
DBB 202H 12 283 MAIN STEAM BULK			10			2	Y80516	04/19/88	04/19/88	04/19/88	P	04/19/88	04/22/88
DBB 202H 12 283 MAIN STEAM BULK REPL W/13677		02570		10		2	Y80516	04/19/88	04/19/88	04/19/88	D	04/21/88	04/22/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS	SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---
DBB 203H 283	2 01593 MAIN STEAM BULK	10			2	V60515	04/16/88	04/16/88	04/16/88	P	04/16/88	04/22/88
DBB 203H 283	2 01594 MAIN STEAM BULK	100			2	V70901	03/22/88	03/22/88	03/23/88	P	03/23/88	03/25/88
DBB 203H 283	3 02563 MAIN STEAM BULK		100		2	V70901	03/22/88	03/22/88	03/23/88	P	03/23/88	03/25/88
DBB 203H 283	3 02568 MAIN STEAM BULK			S	2	V70476	03/07/88	03/07/88	03/08/88	P	03/08/88	03/08/88

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ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7													
SNUBBER ID	SFRIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 203H 5	13673		10			2	Y70882	03/24/88	03/24/88	03/25/88	P	03/25/88	04/20/88
283 MAIN STEAM BULK													
DBB 203H 7	02477		3			2	Y80516	04/19/88	04/19/88	04/20/88	F	04/21/88	04/21/88
283 MAIN STEAM BULK													
REPL W19529													
NCR 88-0308													
DBB 203H 7		02479		3		2	Y80516	04/19/88	04/19/88	04/20/88	P	04/20/88	04/21/88
283 MAIN STEAM BULK													
DBB 203H 9	01271		35			2	Y80515	04/18/88	04/18/88	04/18/88	P	04/18/88	04/22/88
283 MAIN STEAM BULK													
NCR 88-0238													
DBB 203H 9		01272		35		2	Y70901	03/22/88	03/22/88	03/23/88	P	03/23/88	03/28/88
283 MAIN STEAM BULK													
NCR 88-0238													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 203H 11	14415		10			2	Y80515	04/16/88	04/16/88	04/16/88	P	04/16/88	04/21/88
283 MAIN STEAM BULK													
NCR 88-0239													
DBB 203H 11		02562		10		2	Y80515	04/16/88	04/16/88	04/16/88	P	04/16/88	04/21/88
293 MAIN STEAM BULK													
DBB 203H 16	00301		3			2	Y80515	04/18/88	04/18/88	04/18/88	F	04/21/88	04/22/88
283 MAIN STEAM BULK													
REPL W/00319													
NCR 88-0241 NCR 88-0313													
DBB 203H 21	01627		100			2	Y70901	03/24/88	03/24/88	03/25/88	P	03/25/88	03/30/88
283 MAIN STEAM BULK													
DBB 203H 21		01626		100		2	Y70901	03/24/88	03/24/88	03/25/88	F	03/29/88	03/30/88
283 MAIN STEAM BULK													
REPL W/01647													
NCR 88-0179													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 204H 283	2	01278	35		S	2	Y70483	03/07/88	03/07/88	03/07/88	P	03/07/88	03/12/88
MAIN STEAM BULK													
DBB 204H 283	2	01260		35	S	2	Y70483	03/07/88	03/07/88	03/07/88	P	03/07/88	03/12/88
MAIN STEAM BULK													
DBB 204H 283	4	01171	35			2	Y70901	03/22/88	03/22/88	03/23/88	P	03/23/88	03/28/88
MAIN STEAM BULK													
DBB 204H 283	4	01166		35		2	Y80516	04/19/88	04/19/88	04/20/88	P	04/20/88	04/22/88
MAIN STEAM BULK													
DBB 204H 283	7	14771	10		F	2	Y70457	03/24/88	03/24/88	03/25/88	P	03/25/88	04/11/88
MAIN STEAM BULK													
NCR 88-0240													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DBB 204H 7		00384		10	F	2	Y70457	03/24/88	03/24/88	03/25/88	P	03/25/88	04/11/88
283	MAIN STEAM BULK												
DBB 204H 9	01158		35			2	Y70901	03/22/88	03/22/88	03/23/88	P	03/23/88	03/28/88
283	MAIN STEAM BULK												
DBB 204H 16	00215		3		S	2	Y70476	03/07/88	03/07/88	03/07/88	P	03/07/88	03/08/88
283	MAIN STEAM BULK												
NCR 88-0243													
DBB 204H 17	01595		100			2	Y70901	03/24/88	03/24/88	03/24/88	P	03/24/88	03/28/88
283	MAIN STEAM BULK												
NCR 88-0242__NCR 88-0249													
DBB 204H 17		01596		100		2	Y70901	03/24/88	03/24/88	03/24/88	P	03/24/88	03/28/88
283	MAIN STEAM BULK												
NCR 88-0242													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---	---	---
REMARKS	---	---	---	---	---	---	---	---	---	---	---	---	---
COMMENTS	---	---	---	---	---	---	---	---	---	---	---	---	---
DBB 205H 2 01598 283 MAIN STEAM BULK REPL W/00573 NCR 88-0091 NCR 88-0108			100	5	5	2	Y70483	03/07/88	03/07/88	03/07/88	F	03/12/88	03/12/88
DBB 205H 5 04591 283 MAIN STEAM BULK REPL W/14164 NCR 88-0309			10		5	2	Y80516	04/19/88	04/19/88	04/19/88	F	04/21/88	04/22/88
DBB 207H 8 09534 249F DIV II RHR LPCI SDC			35	5	5	1	Y70479	03/10/88	03/10/00	03/10/88	P	03/10/88	03/12/88
DBB 207H 8 09535 249F DIV II RHR LPCI SDC		09535		35	5	1	Y70479	03/09/88	03/09/88	03/09/88	P	03/09/88	03/12/88
DBB 207H 9 01633 249F DIV II RHR LPCI SDC			100	5	5	1	Y70892	03/11/88	03/11.48	03/11/88	P	03/11/88	03/19/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DBB 207H 9		09490		35	S	1	Y70892	03/11/88	03/11/88	03/11/88	P	03/11/88	03/18/88
249F DIV II RHR LPCI SDC													
DBB 209H 12	18804		1		F	1	Y70455	04/16/88	04/16/88	04/18/88	P	04/18/88	04/21/88
250 RCIC STEAM SUPPLY													
DBB 209H 18	14417		1/2		S	1	Y70460	03/06/88	03/06/88	03/06/88	P	03/06/88	03/07/88
250 RCIC STEAM SUPPLY													
DBB 213H 3	09531		35			1	Y70897	03/08/88	03/08/88	03/09/88	P	03/09/88	03/10/88
251B CORE SPRAY LOOP B													
DBB 214H 4	14441		1/2			1	Y70853	03/19/88	03/19/88	03/21/88	D	03/31/88	04/02/88
252 HPCI STEAM SUPPLY REPL W/13432													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 214H 28	00138		.05			1	V70905	03/16/88	03/16/88	03/16/88	P	03/16/88	03/17/88
252 HPCI STEAM SUPPLY													
DBB 215H 1	20187		1			1	V70868 C78295	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249G DIV 11 RHR SDC													
RMVD PER SNUB RED PRG													
DBB 215H 3	19470		3			1	V70868 C78295	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249G DIV 11 RHR SDC													
RMVD PER SNUB RED PRG													
DBB 215H 7	06839		3			1	V70865 C78295	04/05/88	04/05/88	04/05/88	P	04/05/88	Z
249C DIV 1 RHR SDC													
RMVD PER SNUB RED PRG													
DBB 215H 9	23383		1		F	1	V70454 C78295	04/05/88	04/05/88	04/05/88	P	04/05/88	Z
249C DIV 1 RHR SDC													
RMVD PER SNUB RED PRG													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
SVS	SYSTEM DESCRIPTION						CWO NUM					WYLE	
DBB 215H 11	09477	35				1	Y70898 C88065	04/09/88	04/09/88	04/11/88	P	04/11/88	Z
252	HPCT STM SUPPLY												
RMVD	PER SNUB RED PROG												
DBB 215H 51	13432	1/2				1	Y70850 C78296	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249G	DIV 11 RHR SDC												
NCR 88-0080													
RMVD	PER SNUB RED PROG												
DBB 215H 52	23379	1				1	Y70868 C78296	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249G	DIV 11 RHR SDC												
RMVD	PER SNUB RED PROG												
DBB 215H 53	23380	1				1	Y70868 C78296	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249G	DIV 11 RHR SDC												
RMVD	PER SNUB RED PROG												
DBB 215H 54	23381	1				1	Y70868 C78296	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249G	DIV 11 RHR SDC												
RMVD	PER SNUB RED PROG												

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC & SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WVLE REL	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 215H 56	20412		1			1	Y70865 C78295	04/05/88	04/05/88	04/06/88	P	04/06/88	Z
249C DIV II RHR SDC													
RMVD PER SNUB RED PROG													
DBB 215H 57	21542		1			1	Y70865 C78295	04/05/88	04/05/88	04/05/88	P	04/05/88	Z
249C DIV I RHR SDC													
RMVD PER SNUB RED PROG													
DBB 215H 58	20820		1			1	Y70865 C78295	04/05/88	04/05/88	04/06/88	P	04/06/88	Z
249C DIV I RHR SDC													
RMVD PER SNUB REDUCTION PROGRAM													
DBB 215H 59	20803		1			1	Y70865 C78295	04/05/88	04/05/88	04/06/88	P	04/06/88	Z
249C DIV I RHR SDC													
RMVD PER SNUB REDUCTION PROGRAM													
DBB 215H 60	06677		3			1	Y70876 C88065	04/09/88	04/09/88	04/12/88	F	04/12/88	Z
252 HPCI STEAM SUPPLY													
NOT REPLACED													
RMVD PER SNUB RED PROG__NCR 88-0262													

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

V = DC 6 SNUBBER NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBER TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
DBB 222H 55	14408		1/2			1	Y70856 C78173	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
261B RWCU FW													
RMVD PER SNUB RED PROG													
DBB 222H 55		14406		1/2		1	Y70856 C78173	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
261B RWCU FW													
RMVD PER SNUB RED PROG													
DBC 201H 11	19819		3		S	2	Y70473 C88418	03/07/88	03/07/88	03/07/88	P	03/07/88	03/22/88
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBC 201H 11		19834		3	S	2	Y70473 C88418	03/07/88	03/07/88	03/07/88	P	03/07/88	03/22/88
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DBC 202H 51	20404		1			2	Y70879 C78173	04/13/88	04/13/88	04/13/88	D	04/13/88	Z
261A RWCU BULK													
NOT REPLACED													
RMVD PER SNUB RED PROG													

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC & SNUBBER NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBER TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

F51 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
-----	-----	-----	---	---	-----	---	---	---	---	-----	---	---	-----
SYSTEM DESCRIPTION	-----	-----	---	---	-----	---	---	---	---	-----	---	---	-----
REMARKS	-----	-----	---	---	-----	---	---	---	---	-----	---	---	-----
COMMENTS	-----	-----	---	---	-----	---	---	---	---	-----	---	---	-----
DBD 201H 27 00555 245 FW TURB BLDG REPL W/00463 MADE NOISE-REISTD 4/21/88 (F) NCR88-0189	100					5	V70887	03/24/88	03/24/88	03/28/88	P	03/28/88	04/18/88
DBD 201H 30 12956 245 FW TURB BLDG	10					5	V70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
DBD 201H 30 245 FW TURB BLDG	12948		10			5	V70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
DBD 201H 60 01571 245 FW TURB BLDG	100					5	V70887	03/24/88	03/24/88	03/25/88	P	03/25/88	04/02/88
DBD 201H 67 01597 245 FW TURB BLDG	100					5	V70887	03/23/88	03/24/88	03/28/88	P	03/28/88	04/02/88

*** NOTES ***

- X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN
- V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- ? = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WVLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
SY5	SYSTEM DESCRIPTION											WYLE	
REMARKS													
080 201H 68			10			5	Y70863	03/10/88	03/10/88	03/10/88	P	03/10/88	04/08/88
245 FW TURB BLDG		14199			10								
080 201H 71			10			5	Y70863	03/10/88	03/10/88	03/10/88	D	03/10/88	03/24/88
245 FW TURB BLDG													
NOT REPLACED													
NOT REPAIRED, CLEANED AND USED AS-IS													
080 201H 75			10			5	Y70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
245 FW TURB BLDG		14207											
080 201H 75			10			5	Y70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
245 FW TURB BLDG		14208											

*** NOTES ***

- K = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN
- V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REIN°TLD
SVS	SYSTEM DESCRIPTION						CWO NUM						
080 205H 245 FW TURB BLDG	11 09463		35	5		5	V70478	03/06/88	03/06/88	03/07/88	P	03/07/88	03/08/88
080 205H 245 FW TURB BLDG	11 09463	09462	35	5		5	V70478	03/06/88	03/06/88	03/07/88	P	03/07/88	03/08/88
080 205H 245 FW TURB BLDG	20 13674		10			5	V70863	03/10/88	03/10/88	03/10/88	P	03/10/88	04/08/88
080 205H 245 FW TURB BLDG	21 04595		10			5	V70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
080 205H 245 FW TURB BLDG	21 04595	02968	10			5	V70863	03/10/88	03/10/88	03/10/88	D	03/10/88	03/24/88

*** NOTES ***

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- V = UC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYS	SYSTEM DESCRIPTION						CWO NUM						
---	---						---						
080 205H 25	19535		3			5	Y70863	03/10/88	03/10/88	03/10/88	P	03/24/88	03/24/88
245	FW TURB BLDG												
080 205H 27	20793		1			5	Y70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
245	FW TURB BLDG												
080 206H 5	14187		10			5	Y70863	03/10/86	03/10/88	03/10/88	P	03/10/88	03/24/88
245	FW WING SLAB												
080 206H 5		14188			10	5	Y70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
245	FW WING SLAB												
DCA 203H 2	04642		3			1	Y70965	03/25/88	03/25/88	03/28/88	P	03/28/88	Z
261A	RWCU BULK						C78305						
	RMVD PER SNUB RED PROG												

*** NOTES ***

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	CC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DCA 203H 5	03516	3				1	V70965	03/25/88	03/25/88	03/28/88	P	03/28/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DCA 203H 6	03096	3				1	V70965	03/24/88	03/24/88	03/28/88	P	03/28/88	Z
261A RWCU BULK													
RMVD PER SNUB RED PROG													
DCA 203H 9	20821	1	S			1	V70929	03/14/88	03/14/88	03/15/88	P	03/15/88	03/16/88
261A RWCU BULK													
DCA 207H 12	00800	35				1	V70980	03/18/88	03/18/88	03/18/88	P	03/18/88	03/19/88
251B CORE SPRAY B LOOP													
DCA 207H 16	09451	35				1	V70980	03/17/88	03/17/88	03/17/88	P	03/17/88	03/19/88
251B CORE SPRAY B LOOP													
REPL M/06959													
DUE TO PHYSICAL CONDITION													

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ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---
SYS	SYSTEM DESCRIPTION					CWO NUM						
---	---					---						
REMARKS	---											
---	---											
COMMENTS	---											
---	---											
DCA 208H B	01590											
249K RHR SDC COMMON RKR B		100			1	V70977	03/28/88	03/28/88	03/29/88	P	03/29/88	04/04/88
DCA 208H 9	00570											
249K RHR SDC COMMON RKR B		100			1	V70977	03/28/88	03/28/88	03/29/88	P	03/29/88	04/04/88
REPL W/00569												
REPL DUE TO FROZE RING NUT												
DCA 209H 9	01183											
251B CORE SPRAY B LOOP		35			1	V70980	03/18/88	03/18/88	03/18/88	P	03/18/88	03/19/88
DCA 209H 10	01160											
251B CORE SPRAY B LOOP		35			1	V70980	03/18/88	03/18/88	03/18/88	P	03/18/88	03/19/88
DCA 210H 14	12626											
249K DIV 1 RHR LPCI SDC		35		F	1	V70915	04/09/88	04/09/88	04/11/88	D	04/13/88	04/13/88
REPL W/09477												
NCR 88-0266												

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APPENDIX: C

A-I GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS	SYSTEM DESCRIPTION						CWO NUM						
DCA 210H 16 249F DIV 11 RHR LPCI SDC	01569	100	1	Y70975	03/16/88	03/16/88	03/16/88	P	03/16/88	04/05/88			
DCA 210H 17 249F DIV 11 RHR LPCI SDC	07403	35	5	Y70935	03/12/88	03/12/88	03/12/88	P	03/12/88	03/16/88			
DCA 210H 18 249F DIV 11 RHR LPCI SDC	07401	35	1	Y70975	03/18/88	03/18/88	03/18/88	P	03/18/88	04/02/88			
DCA 210H 19 249F DIV 11 RHR LPCI SDC	03203	35	1	Y70975	03/18/88	03/18/88	03/18/88	P	03/18/88	04/02/88			
DCA 210H 20 249F DIV 11 RHR LPCI SDC	03184	35	1	Y70975	03/17/88	03/17/88	03/17/88	P	03/17/88	04/02/88			

*** NOTES ***

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- X = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DCA 210H 21	03758		35			1	Y70975	03/18/88	03/18/88	03/18/88	P	03/18/88	04/05/88
249F DIV II RHR LPCI SDC													
NCR 88-0157													
DCA 210H 22	01511		35			1	Y70975	03/18/88	03/18/88	03/18/88	P	03/18/88	04/02/88
249F DIV II RHR LPCI SDC													
DCA 210H 23	01315		35		S	1	Y70935	03/12/88	03/12/88	03/12/88	P	03/12/88	03/16/88
249F DIV II RHR LPCI SDC													
DCA 210H 24	03757		35			1	Y70975	03/18/88	03/18/88	03/18/88	P	03/18/88	04/02/88
249F DIV II RHR LPCI SDC													
DCA 210H 25	03756		35			1	Y70975	03/17/88	03/17/88	03/17/88	P	03/17/88	04/02/88
249F DIV II RHR LPCI SDC													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---
DCA 210H 26	02758		35	S		1	V70935	03/12/88	03/12/88	03/12/88	P	03/12/88	03/16/88
249F DIV II RHR LPCI SDC													
DCA 210H 27	09475		35			1	V70975	03/17/88	03/17/88	03/17/88	P	03/17/88	04/02/88
249F DIV II RHR LPCI SDC													
DCA 210H 29	01628		100			1	V70973	03/29/88	03/29/88	03/30/88	P	03/30/88	04/12/88
249B DIV I RHR LPCI SDC													
DCA 210H 31	00526		100			1	V70973	03/30/88	03/30/88	04/02/88	F	04/05/88	04/12/88
249B DIV I RHR LPCI SDC													
REPL W/06151													
NCR 88-0211													
DCA 210H 32	00577		100			1	V70973	03/29/88	03/29/88	03/30/88	P	03/30/88	04/12/88
249B DIV I RHR LPCI SDC													

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD

SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DCA 211H 14	14177		10	S		1	V7092B	03/15/88	03/15/88	03/15/88	P	03/15/88	03/22/88
249L RHR HEAD SPRAY													
DCA 211H 16	10713		35	S		1	V70936	03/15/88	03/15/88	03/15/88	P	03/15/88	03/22/88
249L RHR HEAD SPRAY													
DCA 211H 28	19465		3	S		1	V7092B	03/12/88	03/12/88	03/12/88	P	03/12/88	03/22/88
249L RHR HEAD SPRAY													
DCA 241H 2	04575		10	S		1	V70931	03/14/88	03/14/88	03/14/88	D	03/17/88	03/17/88
264A RHR A LOOP BULK													
NOT REPLACED													
NOT REPAIRED, CLEANED AND USED AS-IS													
DCA 201H 1	01575		100			1	V70981	03/21/88	03/21/88	03/21/88	P	03/21/88	04/08/88
261B RWCU FW													

*** NOTES ***

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- V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OP: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DLA 201H 3	00120		.12	S		1	V709P4	03/12/88	03/12/88	03/14/88	F	04/20/88	04/22/88
261B RWCU FW													
DCR 88-0117													
RPRD BY PSA & RETESTED (P) 04/20/88													
DLA 202H 2	01572		100			1	V709B1	03/22/88	03/22/88	03/24/88	P	03/24/88	04/04/88
261B RWCU FW													
DLA 202H 6	01600		100			1	V709B1	03/23/88	03/23/88	03/24/88	P	03/24/88	04/04/88
261B RWCU FW													
DLA 202H 7	01270		35			1	V709B1	03/22/88	03/22/88	04/04/88	P	04/08/88	04/08/88
261B RWCU FW													
REPL W709467													
HAD PASSED-THEN WAS DAMAGED & RETESTED													
DLA 202H 8	00551		100			1	V709B1	03/22/88	03/22/88	03/24/88	F	03/29/88	04/06/88
261B RWCU FW													
REPL W700386													
DCR 88-0178													

*** NOTES ***

X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	REMARKS	COMMENTS	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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DLA 202H 9 261B RWCU FW	00553					100			1	Y70981	03/22/88	03/22/88	03/24/88	P	03/24/88	04/04/88
DLA 202H 9 261B RWCU FW	01179					35			1	Y70981	04/14/88	04/14/88	04/14/88	P	04/14/88	04/16/88
DLA 202H 10 261B RWCU FW	03257					35			1	Y70981	03/22/88	03/22/88	03/22/88	P	03/22/88	04/06/88
DLA 202H 12 261B RWCU FW	00922					35	S		1	Y70937	03/16/88	03/16/88	03/16/88	P	03/16/88	03/23/88

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RT-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS	SYSTEM DESCRIPTION												
REMARKS													
DLA 202H 13	03485		35			1	V70981	03/23/88	03/23/88	03/23/88	P	03/23/88	04/08/88
261B RWCU FW													
DLA 203H 15	00527		100			1	V70981	03/23/88	03/23/88	03/23/88	F	03/29/88	04/06/88
261B RWCU FW													
REPL W/00529													
NCR 88-0175													
DLA 203H 2	01824		100			1	V70981	03/31/88	03/31/88	04/01/88	F	04/05/88	04/08/88
261B RWCU FW													
REPL W/00570													
RPO SNUB FROM DLA 208H9_NCR 88-0212													
DLA 203H 3	00547		100			1	V70981	03/22/88	03/22/88	03/22/88	F	03/29/88	04/06/88
261B RWCU FW													
REPL W/02275													
NCR 88-0171													
DLA 204H 5	03216		35			1	V70981	03/22/88	03/22/88	03/22/88	P	03/22/88	04/04/88
261B RWCU FW													

*** NOTES ***

X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

V = DC & SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYSTEM DESCRIPTION	---	---	---	---	---	---	CWO NUM	---	---	---	---	---	---
DLA 204H 6 261B RWCU FW	01632		100			1	V70981	03/23/88	03/23/88	03/28/88	P	03/28/88	04/06/88
DLA 204H 7 261B RWCU FW	01602		100			1	V70981	03/23/88	03/23/88	03/28/88	P	03/28/88	04/06/88
DLA 204H 8 261B RWCU FW REPL W/00531 REPLD DUE TO CRSSD. THRDS. DURING INST.	01558		100			1	V70981	03/23/88	03/23/88	03/23/88	P	03/23/88	04/03/88
DLA 204H 8 261B RWCU FW	01559			100		1	V70981	03/23/88	03/23/88	03/23/88	P	03/23/88	04/03/88
DLA 204H 9 261B RWCU FW	02563		35	5		1	V70937	03/14/88	04/14/88	03/14/88	P	03/14/88	03/23/88

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13 48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
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DLA 204H 11	07523	02560	35	S	1	Y70937	03/14/88	03/14/88	03/14/88	03/14/88	P	03/14/88	03/23/88
261B RWCU FW													
DLA 204H 12	00813		35		1	Y70981	03/21/88	03/21/88	03/21/88	03/21/88	P	03/21/88	04/03/88
261B RWCU FW													
NC4 88-0124													
DLA 204H 13	03259		35	S	1	Y70937	03/14/88	03/14/88	03/14/88	03/14/88	P	03/14/88	03/23/88
261B RWCU FW													
DLA 204H 14	03679		35		1	Y70981	03/22/88	03/22/88	03/22/88	03/23/88	P	03/23/88	04/06/88
261B RWCU FW													

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- Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD

SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
DLA 204H 15	00530	100	1	Y70981	03/23/88	03/23/88	03/23/88	P	03/23/88	04/06/88			
261B RMCU FW													
EBB 202H 3	09740	1/4	1	Y70853	03/19/88	03/19/88	03/21/88	D	03/31/88	04/02/88			
252 MPC1 PUMP DISC													
REPL W723611													
EBD 210H 4	19455	3	5	V70484	03/07/88	03/07/88	03/07/88	P	03/07/88	03/18/88			
293 TURB BLDG STEAM													
EBD 210H 5	19591	3	5	V70484	03/07/88	03/07/88	03/07/88	P	03/07/88	03/18/88			
293 TURB BLDG STEAM													
GBB 201H 17	19367	3	1	V70874	03/10/88	03/10/88	03/10/88	P	03/10/88	03/14/88			
251B CORE SPRAY B LOOP													

*** NOTES ***

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Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 4-2/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
SVS	SYSTEM DESCRIPTION						CWO NUM					WYLE	
688 201H 17	19388	3	1	Y70874	03/10/88	03/10/88	03/10/88	P	03/10/88	03/10/88	03/10/88	03/10/88	03/14/88
251B CORE SPRAY B LOOP													
688 201H 52		1	1	Y70874	03/11/88	03/11/88	03/11/88	P	03/11/88	03/11/88	03/11/88	03/11/88	03/14/88
251B CORE SPRAY B LOOP													
688 201H 53		1	1	Y70874	03/11/88	03/11/88	03/11/88	P	03/11/88	03/11/88	03/11/88	03/11/88	03/14/88
251B CORE SPRAY B LOOP													
688 201H 54		3	1	Y70874	03/11/88	03/11/88	03/11/88	P	03/11/88	03/11/88	03/11/88	03/11/88	03/14/88
251B CORE SPRAY B LOOP													
688 202H 52		1/2	5	Y70461	03/06/88	03/06/88	03/06/88	P	03/06/88	03/06/88	03/06/88	03/06/88	03/07/88
251B CORE SPRAY B LOOP													

*** NOTES ***

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- Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN F RE-INSTALLATION

ISI GROUP SNUBBFR TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGI	DC	WA NUM	REMOVED	REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS	SYSTEM DESCRIPTION						CWD NUM						
REMARKS													
COMMENTS													
GBB 203H 11	01568		100		S	1	Y70480	03/06/88	03/06/88	03/07/88	P	03/07/88	03/08/88
251B CORE SPRAY B LOOP													
GBB 204H 4	08625		35			1	Y70888 C78295	04/05/88	04/05/88	04/05/88	F	04/05/88	Z
249B DIVI RHR LPCI SDC NCR 88-0223 REPLACED WITH STRUT PER SNUB RED PROG													
GBB 204H 6	06968		35			1	Y70888 C78295	04/05/88	04/05/88	04/05/88	F	04/05/88	Z
249B DIVI RHR LPCI SDC NOT REPLACED RMVD PER SNUB RED PROG NCR 88-0225													
GBB 204H 10	09532		35			1	Y70888 C78295	04/08/88	04/08/88	04/11/88	P	04/11/88	Z
249B DIVI RHR LPCI SDC RMVD PER SNUB RED PROG													
GBB 204H 16	10564		35			1	Y70888 C78295	04/04/88	04/04/88	04/05/88	P	04/05/88	Z
249B DIVI RHR LPCI SDC RMVD PER SNUB RED PROG													

*** NOTES ***

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Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
GBB 204H 21	03690		35		S	1	Y70892	03/11/88	03/11/88	03/11/88	P	03/11/88	03/18/88
249F	DIVII RHR	LPCI SOC											
GBB 204H 22	08639		35			1	Y70892	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249F	DIVII RHR	LPCI SOC											
REPLACED WITH STRUT PER SNUB RED PROG													
GBB 204H 24	11023		35			1	Y70892	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249F	DIVII RHR	LPCI SOC											
RMVD PER SNUB RED PROG													
GBB 204H 28	03177		35			1	Y70892	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249F	DIVII RHR	LPCI SOC											
RMVD PER SNUB RED PROG													
GBB 204H 34	10539		35			1	Y70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F	DIVII RHR	LPCI SOC											
RMVD PER SNUB RED PROG													

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL7	S-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS	SYSTEM DESCRIPTION						CWO NUM						
688 204H 81	09485	35				1	V70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F	DIV11 RHR LPC1 SDC						C78296						
	RMVD PER SNUB RED PROG												
688 204H 81		09486				1	V70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F	DIV11 RHR LPC1 SDC						C78296						
	RMVD PER SNUB RED PROG												
688 204H 82	03190	35			5	1	V70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F	DIV11 RHR LPC1 SDC												
	RMVD PER SNUB RED PROG												
688 204H 83	03213	35			5	1	V70892	03/11/88	03/11/88	03/11/88	F	03/14/88	Z
249F	DIV11 RHR LPC1 SDC												
	REPL W/11023												
	NCR 88-0113												
688 204H 84	09465	35				1	V70892	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249F	DIV11 RHR LPC1 SDC						C78296						
	RMVD PER SNUB RED PROG												

*** NOTES ***

- X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN
- Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBER5 TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WVLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
GBB 204H 84		06970		35		1	Y70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F	DIVII RHR LPCI SDC						C78296						
RMVD PER SNUB RED PROG													
GBB 204H 86		01629		100		1	Y70892	03/11/88	03/11/88	03/11/88	F	03/11/88	Z
249F	DIVII RHR LPCI SDC						C78296						
NOT REPLACED													
RMVD PER SNUB RED PROG__NCR 88-0112													
GBB 204H 86		01630		100		1	Y70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F	DIVII RHR LPCI SDC						C78296						
RMVD PER SNUB RED PROG													
GBB 204H 91		04567		10		1	Y70867	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249F	DIVII RHR LPCI SDC						C78296						
RMVD PER SNUB RED PROG													
GBB 204H 94		14185		10		1	Y70864	04/04/88	04/04/88	04/04/88	P	04/04/88	Z
249B	DIVI RHR LPCI SDC						C78295						
RMVD PER SNUB RED PROG													

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC & SNUBBER NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBER TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
----	-----	-----	----	----	-----	---	----	-----	-----	-----	-----	-----	-----
SVS	SYSTEM DESCRIPTION												
-----	REMARKS												
-----	COMMENTS												
GBB 204H 96	09525		35			1	Y70888	04/05/88	04/05/88	04/07/88	P	04/07/88	Z
249B	DIVI RHR LPCI SDC												
RMVD PER SNUB RED PROG													
GBB 204H 98	04271		10			1	Y70664	04/04/88	04/04/88	04/04/88	P	04/04/88	Z
249B	DIVI RHR LPCI SDC												
RMVD PER SNUB RED PROG													
GBB 204H 98		04273		10		1	Y70864	04/04/88	04/04/88	04/04/88	P	04/04/88	Z
249B	DIVI RHR LPCI SDC												
RMVD PER SNUB RED PROG													
GBB 204H 103	08642		35			1	Y70888	04/05/88	04/05/88	04/05/88	F	04/05/88	Z
249B	DIVI RHR LPCI SDC												
NOT REPLACED													
RMVD PER SNUB RED PROG__NCR 88-0224													
GBB 205H 81	14190		10		S	1	Y70467	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249F	DIVII RHR LPCI SDC												
RMVD PER SNUB RED PROG													

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	5-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLO
REMARKS	SYS	DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---
			10	S		1	V70468	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
			35			1	V70894	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
			35			:	V70894	03/10.88	03/10/88	03/10/88	P	03/10/88	03/23/88
			35			Y	V70894	03/10/88	03/10/88	03/10/88	P	03/10/88	03/23/88
			3			1	V70868	03/09/88	03/09/88	03/09/88	P	03/09/88	Z

*** NOTES ***

X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

DATE OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NJK						
REMARKS													
COMMENTS													
GBB 205H 68	00241		1			1	Y70868	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249G DIVI RHR SDC													
RMVD PER SNUB REC PROG													
GBB 205H 89	10714		35			1	Y70890	04/04/88	04/04/88	04/04/88	P	04/04/88	04/05/88
249C DIVI RHR SDC													
GBB 205H 89		09487		35		1	Y70890	04/04/88	04/04/88	04/04/88	P	04/04/88	04/05/88
249C DIVI RHR SDC													
GBB 205H 92	09446		35			1	Y70890	04/05/88	04/05/88	04/07/88	P	04/07/88	Z
249C DIVI RHR SDC													
RMVD PER SNUB RED PROG													
GBB 205H 93	09457		35			1	Y70890	04/08/88	04/08/88	04/08/88	P	04/08/88	Z
249C DIVI RHR SDC													
RMVD PER SNUB REDUCTION PROGRAM													

*** NOTES ***

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Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
-----	-----	-----	---	---	-----	---	-----	-----	-----	-----	-----	-----	-----
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
GBB 205H 93		09456		35		1	Y70890	04/08/88	04/08/88	04/11/88	P	04/11/88	Z
249C	DIVI RHR SOC						C78295						
RMVD PER SNUB RED PROG													
GBB 205H 94		10890		35		1	Y70890	04/05/88	04/05/88	04/05/88	P	04/05/88	Z
249C	DIVI RHR SOC						C78295						
RMVD PER SNUB RED PROG													
GBB 205H 95		09467		35		1	Y70890	04/04/88	04/04/88	04/04/88	P	04/04/88	Z
249C	DIVI RHR SOC						C78295						
REPLACED WITH STRUT PER SNUB RED PROG													
GBB 205H 96		08621		35		1	Y70888	04/05/88	04/05/88	04/05/88	P	04/05/88	Z
249B	DIVI RHR LPCI SOC						C78295						
RMVD FER SNUB RED PROG													
GBB 206H 1		03681		35		1	Y70888	04/05/88	04/05/88	04/05/88	P	04/05/88	Z
249B	DIVI RHR LPCI SOC						C78295						
RMVD PER SNUB RED PROG													

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
GBB 206H 10	03683		35			1	V70892	03/11/88	03/11/88	03/11/88	P	03/11/88	Z
249F DIV11 RHR LPCI SDC													
RMVD PER SNUB RED PROG													
GBB 206H 18	03250		35			1	V70892	03/15/88	03/15/88	03/15/88	P	03/15/88	03/18/88
249F DIV11 RHR LPCI SDC													
GBB 206H 19	00528		100			1	V70888	04/04/88	04/04/88	04/05/88	F	04/06/88	04/12/88
249B DIV1 RHR LPCI SDC													
REPL W/00533													
NCR 88-0226													
GBB 206H 26	09481		35			1	V70893	03/17/88	03/17/88	03/17/88	P	03/17/88	03/24/88
249F DIV11 RHR LPCI SDC													
GBB 206H 26		09540				1	V70893	03/17/88	03/17/88	03/17/88	P	03/17/88	03/24/88
249F DIV11 RHR LPCI SDC													

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ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FA'L	REL BY WYLE	REINSTLD
			REMARKS												
			COMMENTS												
688 206H 55	00279							1	Y70867	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
249F	01V11 RHR		LPCI SDC						C78296						
			RMVD PER SNUB RED PROG												
688 206H 56	07219							1	Y70867	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249F	01V11 RHR		LPCI SDC						C78296						
			RMVD PER SNUB RED PROG												
688 206H 60	00375							1	Y70864	04/04/88	04/04/88	04/04/88	P	04/04/88	Z
249B	DIV1 RHR		LPCI SDC						C78295						
			RMVD PER SNUB RED PROG												
688 206H 61	09445							1	Y70888	04/04/88	04/04/88	04/04/88	P	04/04/88	Z
249B	DIV1 RHR		LPCI SDC						C78295						
			RMVD PER SNUB RED PROG												
688 207H 54	09518							1	Y70893	03/11/88	03/11/88	03/11/88	P	03/11/88	03/24/88
249F	01V11 RHR		LPCI SDC												
			TO BE REPLACED WITH STRUT												

*** NOTES ***

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.46

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE	RFC	TESTED	PASS	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYSTEM DESCRIPTION	---	---	---	---	---	---	CWO NUM	---	---	---	---	---	---	---
888 209H 65	09511		35			1	Y70895	03/15/88	03/15/88	03/15/88	03/15/88	P	03/15/88	03/16/88
249H DIV11 RHR SUP POOL COOL														
TO BE REPLACED WITH STRUT														
888 209H 65	09512		35			1	Y70895	03/15/88	03/15/88	03/15/88	03/15/88	P	03/15/88	03/16/88
249H DIV11 RHR SUP POOL COOL														
TO BE REPLACED WITH STRUT														
888 209H 67	00633		100	F		1	Y70458	03/15/88	03/15/88	03/15/88	03/15/88	P	03/15/88	03/16/88
249F DIV11 RHR LPC1 5DC														
TO BE REPLACED WITH STRUT														
888 209H 71	14755		10	5		1	Y70469	03/11/88	03/11/88	03/11/88	03/11/88	P	03/11/88	03/12/88
249H DIV11 RHR SUP POOL COOL														
NCR 88-0107														
888 209H 71	14756		10	5		1	Y70469	03/11/88	03/11/88	03/11/88	03/11/88	P	03/11/88	03/12/88
249H DIV11 RHR SUP POOL COOL														

*** NOTES ***

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Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
GBB 214H 52	17295		1/2		F	1	Y70450	03/22/88	03/22/88	03/24/88	P	03/24/88	04/04/88
249J RHR COMMON NONDIV													
GBB 214H 53	17225		1/2		F	1	Y70450	03/22/88	03/22/88	03/24/88	P	03/24/88	04/04/88
249J RHR COMMON NONDIV													
GBB 215H 15	12621		35			1	Y70893	03/11/88	03/11/88	03/11/88	P	03/11/88	03/24/88
249F DIVII RHR LPCI SDC													
GBB 215H 16	08617		35			1	Y70893	03/18/88	03/18/88	03/18/88	P	03/18/88	03/24/88
249F DIVII RHR LPCI SDC													
GBB 216H 54	19461		3			1	Y70868	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249G DIVII RHR SDC													
RMVD PER SNUB RED PRDG													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
GBB 216H 54		19475		3		1	Y70868 C78296	03/10/88	03/10/88	03/10/88	P	03/10/88	Z
249G	DIVII RHR SDC												
RMVD PER SNUB RED PROG													
GBB 216H 60				3		1	Y70865 C78295	04/06/88	04/06/88	04/06/88	P	04/06/88	Z
249C	DIVI RHR SDC												
RMVD PER SNUB RED PROG													
GBB 216H 60		19530		3		1	Y70865 C78295	04/06/88	04/06/88	04/06/88	P	04/06/88	Z
249C	DIVI RHR SDC												
RMVD PER SNUB RED PROG													
GBC 201H 316			35		S	1	Y70940	03/12/88	03/12/88	03/12/88	P	03/12/88	03/24/88
283	MAIN STEAM BULK												
GBC 201H 316		10693		35	S	1	Y70940	03/12/88	03/12/88	03/12/88	P	03/12/88	03/24/88
283	MAIN STEAM BULK												

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APPENDIX: C

IST GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WVLE REC	TESTED	PASS FAIL	REL BY BYLE	REINSTLD
SVS	SYSTEM DESCRIPTION	REMARKS	---	---	---	---	CWO NUM	---	---	---	---	---	---
GBD 222H 5 245 FW TURBINE BLDG	14198		10			5	V70863	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
HBB 204H 6 251B CORE SPRAY B LOOP NOT REPLACED NOT REPAIRED, CLEARED AND USED AS IS	02628		10			1	V70874	03/10/88	03/10/88	03/11/88	D	03/11/88	03/14/88
HBB 204H 51 251B CORE SPRAY B LOOP	14414		10			1	V70874	03/10/88	03/10/88	03/10/88	P	03/10/88	03/14/88
HBB 204H 53 251B CORE SPRAY B LOOP	12957		10			1	V70874	03/10/88	03/10/88	03/10/88	P	03/10/88	03/14/88
HBB 204H 54 251B CORE SPRAY B LOOP	08702		10			1	V70874	03/10/88	03/10/88	03/10/88	P	03/10/88	03/14/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS	SYSTEM DESCRIPTION	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
REMARKS	-----	-----	-----	-----	-----	-----	CWO NUM	-----	-----	-----	-----	-----	-----
H88 204H 55	19544	3			1	V70874	03/10/88	03/10/88	03/10/88	03/10/88	D	03/10/88	03/14/88
251B CORE SPRAY B LOOP REPL W/19477													
H88 204H 56	13668	10			1	V70874	03/10/88	03/10/88	03/10/88	03/10/88	P	03/10/88	03/14/88
251B CORE SPRAY B LOOP													
H88 204H 59	19539	3		5	1	V70471	03/06/88	03/06/88	03/06/88	03/06/88	P	03/06/88	03/07/88
251B CORE SPRAY B LOOP													
H88 204H 59	19453	10		3	1	V70471	03/06/88	03/06/88	03/06/88	03/06/88	P	03/06/88	03/07/88
251B CORE SPRAY B LOOP													
H88 204H 61	08698	10			1	V70874	03/11/88	03/11/88	03/11/88	03/11/88	P	03/11/88	03/14/88
251B CORE SPRAY B LOOP													

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APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT --- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
M88 204H 63	14189		10			1	V70874	03/10/88	03/10/88	03/10/88	P	03/10/88	03/14/88
2518 CORE SPRAY B LOOP													
M88 208H 54	14440		1/2			1	V70853	03/18/88	03/18/88	03/18/88	F	03/29/88	04/08/88
252 HPCI 31M EXH													
REPL W/14431													
NCR 88-0162													
M88 209H 58	10719		35	5		1	V70481	03/06/88	03/06/88	03/07/88	P	03/07/88	03/12/88
252 HPCI PUMP SUCTION													
M88 209H 58		10720				1	V70481	03/06/88	03/06/88	03/07/88	P	03/07/88	03/12/88
252 HPCI PUMP SUCTION													
M88 210H 21	01573		100			1	V70888	04/12/88	04/12/88	04/13/88	P	04/13/88	04/13/88
2498 DIV1 HHR LPCI SOC													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	SERIALZ	5-1	5-2	ORIGIN	DC	MA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
-----	-----	---	-----	-----	---	---	-----	---	-----	-----	-----	-----	-----	-----	-----
-----	-----	---	-----	-----	---	---	-----	---	-----	-----	-----	-----	-----	-----	-----
REMARKS	-----	-----	-----	-----	---	---	-----	---	-----	-----	-----	-----	-----	-----	-----
H88 210H 27	01592	249F	DIV11 RHR LPC1 5DC	100	5			1	V70892	03/11/88	03/11/88	03/11/88	P	03/11/88	03/18/88
H88 210H 35	08624	249F	DIV11 RHR LPC1 5DC	35				1	V70893	03/11/88	02/11/88	03/11/88	P	03/11/88	03/24/88
H88 210H 36	10561	249F	DIV11 RHR LPC1 5DC	35				1	V70893	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
H88 210H 38	09533	249F	DIV11 RHR LPC1 5DC	35				1	V70893	03/10/88	03/10/88	03/10/88	P	03/10/88	03/24/88
H88 210H 39	14186	249F	DIV11 RHR LPC1 5DC	10	5			1	V70467	03/09/88	03/09/88	03/09/88	D	03/09/88	03/12/88
REPL W/14190															

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APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT --- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-T	5-2	ORIGIN	DC	MA	NUM	REMOVED	WYLE	REC	TESTED	PASS	REL	BY	REINSTLD	
SVS	SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---	FAIL	---	---	---	
REMARKS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
COMMENTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
M88 210H 41	09483		35			1	V70893	03/10/88	03/10/88	03/10/88	P	03/10/88	P	03/10/88		03/24/88	
249F DIV11 RHR LPC1 SDC																	
M88 211H 15	10689		35			1	V70893	03/11/88	03/11/88	03/11/88	P	03/11/88	P	03/11/88		03/24/88	
249F DIV11 RHR LPC1 SDC																	
M88 211H 31	10562		35			1	V70893	03/11/88	03/11/88	03/11/88	P	03/11/88	P	03/11/88		03/24/88	
249F DIV11 RHR LPC1 SDC																	
M88 211H 31	10562	10557	35			1	V70893	03/11/88	03/11/88	03/11/88	P	03/11/88	P	03/11/88		04/18/88	
249F DIV11 RHR LPC1 SDC																	
M88 211H 33	09541		35			1	V70893	03/11/88	03/11/88	03/11/88	P	03/11/88	P	03/11/88		03/24/88	
249F DIV11 RHR LPC1 SDC																	

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

151 GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 2

SNUBBER ID	SERIAL	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
-----	-----	---	---	-----	---	---	---	-----	-----	---	---	-----
SVS	SYSTEM DESCRIPTION									FAIL	WYLE	
REMARKS	-----											
COMMENTS	-----											
09537		35			1	V70893	03/1/88	03/11/88	03/11/88	P	03/11/88	03/24/88
		1/2			1	V70851	04/18/88	04/18/88	04/19/88	P	04/19/88	04/20/88
		35	5		1	V70482	03/07/88	03/07/88	03/07/88	P	03/07/88	03/12/88
09544		35	5		1	V70482	03/07/88	03/07/88	03/07/88	P	03/07/88	03/12/88
		100			1	V70900	04/14/88	04/14/88	04/15/88	P	04/15/88	04/18/88

09544
273 CAC PURGE

*** NOTES ***

- X - TESTED BUT NOT ACTUALLY TESTED, BUT CREDIT TAKEN
- Y - DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z - REDUCTION SNUBBER TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX E

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
HBB 218H 234	39 CAC PURGE	01576	100			1	Y70900	04/15/88	04/15/88	04/15/88	P	04/15/88	04/18/88
HBB 225H 234	2 RBCW	14438	1/2			1	Y70942	04/12/88	04/12/88	04/13/88	P	04/13/88	04/15/88
HBB 226H 234	2 RBCW	14443	1/2		5	1	Y70918	03/12/88	03/12/88	03/12/88	P	03/14/88	03/14/88
HBB 288H 234	4 RBCW	14416	1/2			5	Y70942	04/13/88	04/13/88	04/13/88	P	04/13/88	04/15/88
HBB 288H 234	4 RBCW	14422	1/2			5	Y70942	04/13/88	04/13/88	04/13/88	P	04/13/88	04/15/88

*** NOTES ***

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Y = DC & SNUBBER NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBER TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
234	RB	234	RB	234	RB	234	RB	234	RB	234	RB	234	RB
H80 289H 234 RBCW	2	13475	1/2			5	V70942	04/13/88	04/13/88	04/13/88	P	04/13/88	04/15/88
H80 289H 234 RBCW	3	04190	1/4			5	V70942	04/12/88	04/12/88	04/13/88	P	04/13/88	04/15/88
H80 289H 234 RBCW	5	19562	3	5		5	V70927	03/09/88	03/09/88	03/09/88	P	03/09/88	03/14/88
H80 289H 234 RBCW	6	06258	1/4			5	V70942	04/12/88	04/12/88	04/13/88	P	04/13/88	04/15/88
H80 289H 234 RBCW	7	28749	1/4			5	V70942	04/12/88	04/12/88	04/13/88	P	04/13/88	04/15/88

*** NOTES ***

K = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS	REL BY	REINSTLD
REMARKS	SYS	DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---	---	---
HB02039H 11 234 RBCW	14411		1/2			5	V70942	04/13/88	04/13/88	04/13/88	P	04/13/88	04/13/88	04/15/88	
HB02039H 12 234 RBCW	14410		1/2			5	V70942	04/13/88	04/13/88	04/13/88	P	04/13/88	04/13/88	04/15/88	
HB02040H 3 234 RBCW	20797		1	5		5	V70927	03/11/88	03/11/88	03/12/88	P	03/12/88	03/12/88	03/14/88	
HB02040H 6 234 RBCW REPL W/17187 REPLD DUE TO CORROSION OF SNAP RINGS	14414		1/2			5	V70942	04/12/88	04/12/88	04/13/88	P	04/13/88	04/13/88	04/15/88	
HB02054H 52 234 RBCW RMVD PER SNUBBER PROG	16398		1/4			6	V70942 C78320	04/12/88	04/12/88	04/13/88	P	04/13/88	04/13/88	04/15/88	

*** NOTES ***

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- Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	
													FAIL	WYLE	
HCB 204H 257 HPCI PUMP SUCTION	7 05001				1	5		1	V70472	03/06/88	03/06/88	03/06/88	P	03/06/88	REINSTLD
HCD 215H 251B CORE SPRAY B LOOP	51 12953							5	V70874	03/10/88	03/10/88	03/10/88	P	03/10/38	04/14/88
HRC 212H 216B RHRSW LOOP B	26 10888							1	V70885	03/15/88	03/15/88	03/15/88	P	03/15/88	03/16/88
HRC 214H 216B RHRSW LOOP B	11 01241							1	V70466	03/11/88	03/11/88	03/12/88	P	03/12/88	03/12/88
HRC 229H 254A ESW LOOP A REPL W/20840 REPLD PRIOR TO TESTING DUE TO DIV SWAP	29 23387							1	V70456	04/09/88	04/09/88	04/12/88	P	04/12/88	04/09/88

*** NOTES ***

A = "TESTED OUT" - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

F = DC B SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	S-1	S-2	ORIGIN	DC	NA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
REMARKS	SYSTEM DESCRIPTION						CWO NUM						
			1			6	V70969 C78319	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
			1			6	V70969 C78319	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
			1			6	V70969 C78318	04/09/88	04/09/88	04/12/88	P	04/12/88	Z
			1			6	V70969 C78312	04/09/88	04/09/88	04/11/88	P	04/11/88	Z
						6	V70969 C78318	04/09/88	04/09/88	04/12/88	P	04/12/88	Z

*** NOTES ***

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APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWD NUM						
REMARKS													
COMMENTS													
MSL 200H	1	12628	35			5	Y80514	04/15/88	04/15/88	04/15/88	F	04/18/88	04/22/88
293 TURB BLDG STEAM													
REPL W/10584													
NCR 88-0290													
MSL 200H	2	03747	35			5	Y80514	04/15/88	04/15/88	04/15/88	P	04/15/88	04/21/88
293 TURB BLDG STEAM													
MSL 200H	4	03285	35			5	Y80514	04/15/88	04/15/88	04/15/88	F	04/18/88	04/21/88
293 TURB BLDG STEAM													
REPL W/09532													
NCR 88-0244__NCR 88-0291													
MSL 200H	5	13773	10			5	Y80514	04/16/88	04/16/88	04/16/88	F	04/18/88	05/03/88
293 TURB BLDG STEAM													
REPL W/04271													
TRANSFRD TO IEG WA V_____ FOR REINST													
MSL 200H	5	13400	10			5	Y80514	04/16/88	04/16/88	04/16/88	D	04/20/88	05/03/88
293 TURB BLDG STEAM													
REPL W/14416													
TRANSFRD TO IEG WA V_____ FOR REINST													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	SERIAL2	5-1	5-2	ORIGIN	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
-----	-----	---	-----	-----	---	---	-----	---	---	---	-----	---	---	-----	---	-----	-----
REMARKS	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MSL 200H 6 13412			TURB BLDG STEAM	10	5		5	5	V70484	03/07/88	03/07/88	03/07/88	F	03/12/88	03/18/88		
REPL W/16296																	
NCR 88-0089																	
MSL 200H 6 13413			TURB BLDG STEAM	10	5		5	5	V70484	03/07/88	03/07/88	03/07/88	F	03/12/88	03/18/88		
REPL W/13429																	
NCR 88-0087																	
MSL 200H 7 01301			TURB BLDG STEAM	35			5	5	V80514	04/16/88	04/16/88	04/16/88	P	04/16/88	04/21/88		
REPL W/03647																	
NCR 88-0246																	
MSL 200H 9 01293			TURB BLDG STEAM	35	5		5	5	V70484	03/06/88	03/06/88	03/07/88	P	03/07/88	03/18/88		
REPL W/03647																	
NCR 88-0088																	
MSL 200H 9 01164			TURB BLDG STEAM	35	5		5	5	V70484	03/06/88	03/06/88	03/07/88	F	03/12/88	03/18/88		
REPL W/03647																	
NCR 88-0088																	

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

151 GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT --- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SY5	SYSTEM DESCRIPTION						CWD NUM						
M5L 200H 10	03749		35			5	V80514	04/15/88	04/15/88	04/15/88	P	04/15/88	04/22/88
293	TURB BLDG STEAM												
	REPL W/09845												
	REPLD DUE TO UNSTAKED TELESCOPING CVL												
M5L 200H 10	03748		35			5	V80514	04/15/88	04/15/88	04/15/88	P	04/15/88	04/22/88
293	TURB BLDG STEAM												
M5L 200H 11	03750		35			5	V80514	04/16/88	04/16/88	04/16/88	P	04/16/88	04/21/88
293	TURB BLDG STEAM												
M5L 200H 11	03751		35			5	V80514	04/16/88	04/16/88	04/16/88	P	04/16/88	04/21/88
293	TURB BLDG STEAM												
M5L 222H 14	07692		35			1	V70992	03/24/88	03/24/88	03/24/88	P	03/24/88	04/07/88
283	MAIN STEAM BULK												
	NCR 88-016R												
	WAS PULLED PER WA V83156 FOR B MSRV WORK												

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ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIM. 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS SYSTEM DESCRIPTION													
REMARKS													
COMMENT:													
MST 222H 17	01601		100			1	Y70992	03/31/88	03/31/88	03/31/88	P	03/31/88	04/15/88
283	MAIN STEAM BULK												
MST 222H 18	01826		100			1	Y70992	03/30/88	03/30/88	04/03/88	F	04/05/88	04/19/88
283	MAIN STEAM BULK												
REPL W/0037													
NCR 88-0210													
MST 222H 21	01562		100		S	1	Y70940	03/14/88	03/14/88	03/14/88	F	03/16/88	03/24/88
283	MAIN STEAM BULK												
REPL W/01630													
NCR 88-0118													
MST 222H 22	01577		100			1	Y70993	04/02/88	04/02/88	04/02/88	P	04/02/88	04/07/88
283	MAIN STEAM BULK												
MST 222H 33	01564		100			1	Y70993	04/02/88	04/02/88	04/02/88	P	04/02/88	04/16/88
283	MAIN STEAM BULK												

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION		CWO NUM											
MST 222H 34	00537	100				1	V70993	04/02/88	04/02/88	04/02/88	P	04/02/88	04/16/88
283	MAIN STEAM BULK												
MST 222H 36	03212	35	S			1	V70940	03/11/88	03/11/88	03/11/88	P	03/11/88	03/24/88
283	MAIN STEAM BULK												
MST 222H 36	01563	03209	S	35		1	V70940	03/11/88	03/11/88	03/11/88	P	03/11/88	04/08/88
283	MAIN STEAM BULK												
MST 222H 37	01563	100				1	V70993	03/31/88	03/31/88	04/02/88	P	04/02/88	04/06/88
283	MAIN STEAM BULK												
MST 222H 38	01566	100				1	V70993	04/02/88	04/02/88	04/02/88	P	04/02/88	04/06/88
283	MAIN STEAM BULK												

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APPENDIX: C

IST GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

SNUBBER ID		SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS		SYSTEM DESCRIPTION						CWO NUM						
REMARKS														
COMMENTS														
MST	222H	48	01565	100			1	Y70993	03/31/88	03/31/88	04/02/88	P	04/02/88	04/09/88
283	MAIN STEAM BULK													
RWS	240H	9	10727	35		S	1	Y70934	03/12/88	03/12/88	03/12/88	P	03/12/88	03/18/88
249E	DIV II RHR LPCI SDC RXR													
RWS	200H	11	12624	35		F	1	Y70916	04/11/88	04.11/88	04/11/88	D	04/13/88	04/15/88
264A	RXR A LOOP SUCTION													
	REPL W/09456													
RWS	200H	17	07532	35		S	1	Y70934	03/14/88	03/14/88	03/15/88	P	03/15/88	03/18/88
249E	DIV II RHR LPCI SDC RXR													
RWS	200H	26	03773	35		S	1	Y70934	03/12/88	03/12/88	03/12/88	P	03/12/88	03/18/88
249E	DIV II RHR LPCI SDC RXR													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SOFT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
RWS 200H 26		03774		35	S	1	Y70934	03/12/88	03/12/88	03/12/88	P	03/12/88	03/18/88
249E DIV II RHR LPC1 SDC RXR													
RWS 200H 77	03360		35		S	1	Y70938	03/15/88	03/15/88	03/15/88	P	03/15/88	03/24/88
264A RXR A LOOP SUCTION													
NCR 88-0150													
RWS 200H 27		05361		35	S	1	Y70938	03/15/88	03/15/88	03/15/88	P	03/15/88	03/24/88
264A RXR A LOOP SUCTION													
RWS 200H 33	12629		35		F	1	Y70914	04/11/88	04/11/88	04/11/88	P	04/11/88	04/13/88
249A DIV I RHR LPC1 SDC RXR													
RWS 200H 37	03665		35		S	1	Y70939	03/09/88	03/09/88	03/10/88	P	03/10/88	03/12/88
244B RXR P LOOP BULK													

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	5-2	ORIGIN	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS	REL	BY	REINSTLD
SYS	SYSTEM DESCRIPTION												FAIL	WYLE		
REMARKS	COMMENTS															
RWS 200H 41	00538	100				1	V70983	03/30/88	03/30/88	03/31/88		03/31/88	F	03/31/88		04/04/88
2648 RXR B LOOP BULK																
REPL W/00571																
NCR 88-0204																
RWS 200H 42	00539	100				1	V70983	03/30/88	03/30/88	03/30/88		03/31/88	F	03/31/88		04/04/88
2648 RXR B LOOP BULK																
REPL W/01797																
NCR 88-0200																
RWS 200H 44	00540	100				1	V70983	03/30/88	03/30/88	03/30/88		03/30/88	F	03/31/88		04/04/88
2-48 RXR B LOOP BULK																
REPL W/00944																
NCR 88-0201																
RWS 200H 46	01637	100			F	1	V70916	04/12/88	04/12/88	04/12/88		04/12/88	P	04/12/88		04/15/88
264A RXR A LOOP BULK																
REPL W/00632																
REPLD DUE TO UNACC TRANS TUBE THDS																
RWS 200H 47	00546	100				1	V70982	03/23/88	03/23/88	03/24/88		03/24/88	P	03/24/88		04/04/88
264A RXR A LOOP BULK																

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
RWS 200H 49	00549		100		S	1	Y70938	03/15/88	03/15/88	03/15/88	F	03/17/88	04/06/88
264A RXR A LOOP BULK REPL W/01333 NCR 88-0134__NCR 88-0164													
SPDBA 202H5000	14444		1/2			1	Y70949	04/14/88	04/14/88	04/14/88	F	04/15/88	04/15/88
252 HPCI STM SUP REPL W/14446 NCR 88-0286													
SPDBA 202H5001	14460		1/2		S	1	Y70920	03/09/88	03/09/88	03/09/88	P	03/09/88	03/14/88
252 HPCI STM SUP													
SPDBA 204H2000	12958		1/2			1	Y70951	04/14/88	04/14/88	04/14/88	P	04/14/88	04/16/88
261B RWCU FW													
SPDBA 204H2600	14447		1/2			1	Y70951	04/14/88	04/14/88	04/14/88	P	04/14/88	04/15/88
261B RWCU FW													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPDBA 205H3001	23620		1/4			1	Y70946	04/02/88	04/02/88	04/04/88	P	04/04/88	04/06/88
250	RCIC STEAM SUPPLY												
SPDBA 205H3002	23621		1/4			1	Y70946	04/02/88	04/02/88	04/04/88	P	04/04/88	04/06/88
250	RCIC STEAM SUPPLY												
SPDBA 206H 2	14401		1/2			1	Y70951	04/14/88	04/14/88	04/14/88	P	04/14/88	04/15/88
261B	RWCU FW												
SPDBA 208H 1	14466		1/2			1	Y70956	04/07/88	04/07/88	04/08/88	P	04/08/88	04/12/88
283	MAIN STEAM BULK												
SPDBA 208H C	24384		1/4		S	1	Y70925	03/12/88	03/12/88	03/12/88	F	03/14/88	03/15/88
283	MAIN STEAM BULK												
REPL W/27675													
NCR 88-0111													

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Z = REDUCTION SNUBBER TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
SPDBA 208H 283	4	24385	1/4			1	Y70956	04/07/88	04/07/88	04/08/88	P	04/08/88	04/12/88
MAIN STEAM BULK													
SPDBA 208H 283	6	14409	1/2			1	Y70956	04/07/88	04/07/88	04/08/88	P	04/08/88	04/12/88
MAIN STEAM BULK													
SPDBA 208H 283	7	24375	1/4			1	Y70956	04/07/88	04/07/88	04/08/88	F	04/11/88	04/12/88
MAIN STEAM BULK													
REPL W/13060													
NCR 88-0255													
SPDBA 209H 283	2	24372	1/4			1	Y70956	04/07/88	04/07/88	04/08/88	P	04/08/88	04/12/88
MAIN STEAM BULK													
SPDBA 210H 283	1	24381	1/4			1	Y70956	04/09/88	04/09/88	04/09/88	P	04/09/88	04/12/88
MAIN STEAM BULK													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPDBA 210H 283	2	14463		1/2		1	Y70956	04/09/88	04/09/88	04/09/88	P	04/09/88	04/12/88
MAIN STEAM BULK													
SPDBA 211H 283	1	24379		1/4		1	Y70956	04/09/88	04/09/88	04/09/88	P	04/09/88	04/12/88
MAIN STEAM BULK													
SPDBA 211H 283	2	24380		1/4		1	Y70956	04/09/88	04/09/88	04/09/88	P	04/09/88	04/12/88
MAIN STEAM BULK													
SPDBA 212H2606 262A		14445		1/2		1	Y70953	04/07/88	04/07/88	04/08/88	P	04/08/88	04/08/88
VESSEL SPIDER													
SPDBA 212H2609 262A		23618		1/4		1	Y70953	04/07/88	04/07/88	04/08/88	P	04/08/88	04/08/88
VESSEL SPIDER													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPDBA 212H2642	14450		1/2			1	Y70953	04/07/88	04/07/88	04/08/88	P	04/08/88	04/08/88
262A VESSEL SPIDER													
NCR 88-0251													
SPDBA 212H2645	20849		1		S	1	Y70930	03/07/88	03/07/88	03/07/88	P	03/07/88	06/08/88
262A VESSEL SPIDER													
SPDBA 212H2645		20850		1	S	1	Y70930	03/07/88	03/07/88	03/07/88	P	03/07/88	06/08/88
262A VESSEL SPIDER													
SPDBA 214H3000	14455		1/2			1	Y70857	04/18/88	04/18/88	04/18/88	P	04/18/88	04/21/88
283 MAIN STEAM LCS													
SPDBA 214H3001	14456		1/2			1	Y70857	04/18/88	04/18/88	04/18/88	P	04/18/88	04/21/88
283 MAIN STEAM LCS													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
SPOBA 214H3004 283	14457 MAIN STEAM LCS		1/2			1	Y70857	04/18/88	04/18/88	04/18/88	P	04/18/88	04/21/88
SPOBA 214H3006 283	24373 MAIN STEAM LCS		1/4			1	Y70857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/20/88
SPOBA 214F3006 283	24738 MAIN STEAM LCS	24738		1/4		1	Y70857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/20/88
SPOBA 215H3002 283	28729 MAIN STEAM LCS		1/4			1	Y70857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/20/88
SPOBA 215H3004 283	17197 MAIN STEAM LCS		1/2			1	Y70858	03/21/88	03/21/88	03/22/88	P	03/22/88	04/09/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPOBA 216H3002 283	14452		1/2			1	Y70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
MAIN STEAM LCS													
SPOBA 217H3004 283	17189		1/2			1	Y70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
MAIN STEAM LCS													
SPOBA 217H3004 283		17190		1/2		1	Y70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
MAIN STEAM LCS													
SPOBA 219H5003 283	04788		1/2			1	Y70957	03/30/88	03/30/88	03/30/88	P	03/30/88	04/12/88
MAIN STEAM BULK													
SPOBB 208H 13 283	28796		1/4		F	1	Y70453	03/24/88	03/24/88	03/29/88	F	03/29/88	04/09/88
MAIN STEAM BULK													
REPL W/22980													
NCR 88-0195													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
SP0BB 283	208H MAIN STEAM BULK	17 14468	1/2			1	Y70857	04/18/88	04/18/88	04/19/88	.	04/21/88	04/21/88
REPL W/17230 NCR 88-0312													
SP0BB 283	208H MAIN STEAM BULK	82 09749	1/4		S	1	Y70465	03/06/88	03/06/88	03/07/88	P	03/07/88	03/11/88
SP0BB 283	208H MAIN STEAM BULK	83 17198	1/2		S	1	Y70465	03/06/88	03/06/88	03/06/88	P	03/06/88	03/11/88
SP0BB 283	208H MAIN STEAM BULK	86 24387	1/4			1	Y70857	03/23/88	03/23/88	03/25/88	P	03/25/88	04/04/88
SP0BB 283	208H MAIN STEAM BULK	87 14462	1/2			1	Y70857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/21/88

*** NOTES ***

A = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPDBB 208H 89 14469			1/2			1	Y70857	04/18/88	04/18/88	04/18/88	P	04/18/88	04/21/88
283	MAIN STEAM BULK												
SPDBB 215H5003 14437			1/2			1	Y70852	04/12/88	04/12/88	04/13/88	P	04/13/88	04/13/88
251A	CORE SPRAY A LOOP												
SPDBB 215H5005 17230			1/2		F	1	Y70451	04/09/88	04/09/88	04/12/88	P	04/12/88	Z
252	HPCI STM SUP												
RMVD PER SNUB RED PROG													
SPDBB 215H5007 14449			1/2			1	Y70853	03/19/88	03/19/88	03/21/88	P	03/21/88	Z
252	HPCI STM SUP												
RMVD PER SNUB RED PROG													
SPDBB 215H5009 02537			1			1	Y70876	04/09/88	04/09/88	04/12/88	P	04/12/88	Z
252	HPCI STM SUP												
RMVD PER SNUB RED PROG													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPDBB 221H5006 250 RCIC PUMP DISC	21546		1		S	1	Y70470	03/06/88	03/06/88	03/06/88	P	03/06/88	03/08/88
SPDBB 221H5006 250 RCIC PUMP DISC		21545		1	S	1	Y70470	03/06/88	03/06/88	03/06/88	P	03/06/88	03/08/88
SPDBB 223H3004 283 MAIN STEAM LCS REPL W/06316 NCR 88-0170	23614		1/4			1	Y70858	03/21/88	03/21/88	03/22/88	F	03/29/88	04/09/88
SPDBB 224H3004 283 MAIN STEAM LCS	17191		1/2			1	Y70858	03/21/88	03/21/88	03/23/88	P	03/23/88	04/02/88
SPDBB 225H3003 283 MAIN STEAM LCS	17184		1/2			1	Y70858	03/21/88	03/21/88	03/21/88	F	03/21/88	04/02/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---	---	---
REMARKS	---	---	---	---	---	---	---	---	---	---	---	---	---
COMMENTS	---	---	---	---	---	---	---	---	---	---	---	---	---
SP088 225H3004 17185 283 MAIN STEAM LCS		1/2				1	V70857	03/23/88	03/23/88	03/24/88	P	03/24/88	04/04/88
SP088 226H3001 17192 283 MAIN STEAM LCS		1/2				1	V70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
SP088 226H3003 14471 283 MAIN STEAM LCS		1/2				1	V70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
SP088 226H3005 23608 283 MAIN STEAM LCS		1/4				1	V70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
SP088 214H9002 06316 252 HPCI STM SUP RMVD PER SNUB RED PROG		1/4				4	V70853 C88065	03/18/88	03/18/88	03/18/88	P	03/18/88	Z

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	S-1	S-2	ORIGIN	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYS	SYSTEM DESCRIPTION						CWO	NUM				FAIL	WYLE	
---	---						---	---				---	---	---
	REMARKS													
	COMMENTS													
SP080	214H9004	14432			4	V70853		03/16/88	03/18/88		03/18/88	P		03/18/88 Z
252	HPCI STM SUP					C88065								
NCR	88-0160													
	RMVD PER SNUB RED PROG													
SP080	214H9005	14433			4	V70853		03/18/88	03/18/88		03/18/88	F		03/18/88 Z
252	HPCI STM SUP					C88065								
	NOT REPLACED													
	RMVD PER SNUB RED PROG													
SP080	214H9006	12972			4	V70853		03/18/88	03/18/88		03/19/88	P		03/19/88 Z
252	HPCI STM SUP					C88065								
	RMVD PER SNUB RED PROG													
SP0CA	202H 18	14165			1	V70908		03/29/88	03/29/88		03/30/88	P		03/30/88 04/02/88
2648	RXR B LOOP BULK													
	2628 VESSEL FLANGE LEAKOFF													
SP0CA	202H 18	14165			1	V70932		03/15/88	03/15/88		03/15/88	P		03/15/88 03/16/88
2648	RXR B LOOP BULK													

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
SPDCA 202H 21 19837 264A RXR A LOOP BULK			3		S	1	Y70931	03/14/88	03/14/88	03/14/88	P	03/14/88	03/17/88
SPDCA 202H2602 18348 264A RXR A LOOP BULK REPL W/20810 NCR 88-0263			1		F	1	Y70913	04/09/88	04/09/88	04/11/88	F	04/13/88	04/13/88
SPDCA 206H 2 02371 253 SBLC			1/2			1	Y70950 C78304	03/23/88	03/23/88	03/24/88	P	03/24/88	Z
RMVD PER SNUB RED PROG													
SPDCA 206H 4 03867 253 SBLC			1/2			1	Y70950 C78304	03/23/88	03/23/88	03/24/88	P	03/24/88	Z
RMVD PER SNUB RED PROG													
SPDCA 207H5003 05608 251B CORE SPRAY B LOOP REPL W/10730 NCR 88-0161			1/2			1	Y70948	03/21/88	03/21/88	03/21/88	F	03/23/88	03/23/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
SYS	SYSTEM DESCRIPTION										FAIL	WYLE	
REMARKS													
COMMENTS													

SPDCA 207H5006	05593		1/2		1	Y70948	03/21/88	03/21/88	03/21/88	03/21/88	P	03/21/88	03/23/88
251B CORE SPRAY B LOOP													

SPDCA 207H5008	17200		1/2		1	Y70979	04/07/88	04/07/88	04/08/88	04/08/88	P	04/08/88	04/09/88
251A CORE SPRAY A LOOP													

SPDCA 210H5006	03590		1	F	1	Y70912	03/12/88	03/12/88	03/12/88	03/12/88	P	03/12/88	03/19/88
249F DIV II RHR LPCI SDC													

SPDCA 210H5006		20837			1	Y70912	03/12/88	03/12/88	03/12/88	03/12/88	P	03/12/88	03/19/88
249F DIV II RHR LPCI SDC													

SPDCA 218H5014	2892B		1/4		1	Y70910	03/22/88	03/22/88	03/23/88	03/23/88	P	03/23/88	03/28/88
264A RHR A LOOP BULK													

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ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM				FAIL	WYLE	
SPDCA 218H5026 264A RHR A LOOP BULK	23016		1/4			1	Y70954	04/14/88	04/14/88	04/15/88	P	04/15/88	04/16/88
SPDCA 219H5014 264A RHR A LOOP BULK REPL W/29006	23016		1/4			1	Y70954	04/14/88	04/14/88	04/15/88	D	04/16/88	04/16/88
SPDCA 219H5022 264A RHR A LOOP BULK REPL W/13097	23630		1/4			1	Y70954	04/14/88	04/14/88	04/15/88	D	04/16/88	04/16/88
SPDCA 220H5020 249K RHR SOC COM RHR B	24386		1/4			1	Y70945	03/29/88	03/29/88	03/30/88	P	03/30/88	04/04/88
SPDCA 220H5021 249K RHR SOC COM RHR B	17186		1/2			1	Y70945	03/31/88	03/31/88	04/01/88	P	04/01/88	04/04/88

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ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS	FAIL	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SPOCA 221H5021 16443 249K RHR SOC COM RHR B			1/4			1	V70945	03/29/88	03/29/88	03/29/88	03/30/88	03/30/88	P		03/30/88	04/04/88
SPOCA 221H5022 17199 249K RHR SOC COM RHR B			1/2			1	V70945	03/29/88	03/29/88	03/29/88	03/30/88	03/30/88	0		03/30/88	04/04/88
SPOCA 226H5049 13083 2491 RHR SOC COMMON REPL W/24362 NCR 88-0205			1/4			1	V70944	03/31/88	03/31/88	03/31/88	03/31/88	03/31/88	F		04/05/88	04/05/88
SPOCA 226H5049 2491 RHR SOC COMMON REPL W/23633 NCR 88-0206	28740		1/4		1/4	1	V70944	03/31/88	03/31/88	03/31/88	03/31/88	03/31/88	F		04/05/88	04/05/88
SPOCA 227H5083 17188 283 MAIN STEAM BULK			1/2			1	V70956	04/11/88	04/11/88	04/11/88	04/11/88	04/11/88	P		04/11/88	04/12/88

*** NOTES ***

X = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC B SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SYSTEM DESCRIPTION	---	---	---	---	---	---	CWO NUM	---	---	---	---	---	---
SPOCA 227H5085 283 MAIN STEAM BULK	14464	1/2				1	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
SPOCA 227H5090 283 MAIN STEAM BULK	23615	1/4				1	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
SPOCA 227H5091 283 MAIN STEAM BULK	23616	1/4				1	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
SPOCA 228H5070 283 MAIN STEAM BULK	14419	1/2				1	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/06/88
SPOCA 228H5071 283 MAIN STEAM BULK	14420	1/2				1	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/06/88

*** NOTES ***

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- V = DC & SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN
- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
SPOCA 228H5082	70957		1/2			:	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
283 MAIN STEAM BULK													
SPOCA 228H5084	21540		1	S		1	V70953	03/12/88	03/12/88	03/12/88	P	03/12/88	03/16/88
283 MAIN STEAM BULK													
SPOCA 228H5087	14421		1/2			1	V70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
283 MAIN STEAM BULK													
SPOCA 228H3002	14957		1/4			1	V70946	03/30/88	03/30/88	03/31/88	P	03/31/88	04/06/88
250 RCIC STEAM SUPPLY													
SPOCA 228H3003	05158		1/4			1	V70946	04/02/88	04/02/88	04/04/88	P	04/04/88	04/06/88
250 RCIC STEAM SUPPLY													

*** NOTES ***

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- Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYSTEM DESCRIPTION	DESCRIPTION												
REMARKS													
SPOCA 229H3004	21695		1/4	S		1	V70919	03/12/88	03/12/88	03/13/88	P	03/13/88	03/14/88
250 RCIC STEAM SUPPLY													
SPOCA 229H3005	23627		1/4			1	V70946	03/30/88	03/30/88	03/31/88	P	03/31/88	04/05/88
250 RCIC STEAM SUPPLY													
SPOCA 229H3006	28770		1/4	F		1	V70996	04/12/88	04/12/88	04/15/88	P	04/13/88	04/15/88
250 RCIC STEAM SUPPLY													
SPOCA 229H3007	23629		1/4			1	V70946	03/30/88	03/30/88	03/31/88	P	03/31/88	04/05/88
250 RCIC STEAM SUPPLY													
NCM 88-0248													
SPOCA 230H3003	23625		1/4			1	V70946	03/30/88	03/30/88	03/31/88	P	03/31/88	04/06/88
250 RCIC STEAM SUPPLY													

*** NOTES ***

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD	
SYSTEM DESCRIPTION							CWO NUM							
REMARKS														
COMMENTS														
SPDCA 230H3006	23623		1/4			1	Y70946	03/30/88	03/30/88	03/30/88	P	03/30/88	04/06/88	
250	RCIC STEAM SUPPLY													
SPDCA 230H3010	23626		1/4			1	Y70946	03/30/88	03/30/88	03/31/88	P	03/31/88	04/05/88	
250	RCIC STEAM SUPPLY													
SPDCA 230H3012	23622		1/4			1	Y70946	04/02/88	04/02/88	04/04/88	P	04/04/88	04/06/88	
250	RCIC STEAM SUPPLY													
SPDCA 230H3013	24388		1/4			1	Y70946	03/30/88	03/30/88	04/01/88	P	04/01/88	04/05/88	
250	RCIC STEAM SUPPLY													
SPDCA 230H3020	24391		1/4			1	Y70946	04/02/88	04/02/88	04/04/88	P	04/04/88	04/06/88	
250	RCIC STEAM SUPPLY													

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Y = DC & SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SERIAL2	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
-----	---	---	---	---	---	---	---	---	---	---	---
SERIAL	---	---	---	---	CWO NUM	---	---	---	---	---	---
SPDCA 230H3022	28913										
250	RCIC STEAM SUPPLY										
SPDCA 230H3024	24389										
250	RCIC STEAM SUPPLY										
SPDCA 230H3032	23619										
250	RCIC STEAM SUPPLY										
SPDCA 232H9001	24368										
252	MPC1 STEAM SUPPLY										
REFL W/16401											
NCR 88-0288											
SPDCA 233H3003	22980										
261C	RWCU 150L INST										
RMVD PER SNUB RED PROG											

*** NOTES ***

X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS	SYSTEM DESCRIPTION						CWO NUM						
REMARKS													
COMMENTS													
SPDCA 233H3003		29006		1/4	F	1	Y70907	03/31/88	03/31/88	04/01/88	P	04/01/88	Z
261C	RWCU ISOL INST						C78306						
RMVD PER SNUB RED PROG													
SPDCA 233H3004	16401			1/4		1	Y70952	04/05/88	04/05/88	04/06/88	P	04/06/88	Z
261C	RWCU ISOL INST						C78306						
RMVD PER SNUB RED PROG													
SPDCA 233H3005	16369			1/4		1	Y70952	04/05/88	04/05/88	04/06/88	P	04/06/88	04/07/88
261C	RWCU ISOL INST												
RMVD PER SNUB RED PROG													
SPDCA 233H3007	06293			1/4		1	Y70952	04/05/88	04/05/88	04/06/88	D	04/06/88	Z
261C	RWCU ISOL INST						C78306						
NOT REPLACED													
RMVD PER SNUB RED PROG													
SPDCA 233H3007		06251		1/4		1	Y70952	04/05/88	04/05/88	04/06/88	P	04/06/88	Z
261C	RWCU ISOL INST						C78306						
RMVD PER SNUB RED PROG													

NOTES ***

TESTED OUT: NOT ACTUALLY TESTED, BUT CREDIT TAKEN

IC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

2 = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- PORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SVS	SYSTEM DESCRIPTION	REMARKS	COMMENTS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS
SPDCA 233H3008	05134		1/4	S		1	Y70921	03/12/88	03/12/88	03/13/88	P	03/13/88	Z
261C	RWCU 150L INST						C7B306						
ONLY S/N 5134 RMVD PER SNUB RED PROG													
SPDCA 233H3008						1	Y70921	03/12/88	03/12/88	03/13/88	P	03/13/88	03/30/88
261C	RWCU 150L INST						C7B306						
NCR 88-0116													
ONLY S/N 5134 RMVD PER SNUB RED PROG													
SPDCA 234H3001	13060		1/4			1	Y70952	04/08/88	04/08/88	04/08/88	P	04/08/88	Z
261C	RWCU 150L INST						C7B306						
RMVD PER SNUB REDUCTION PROGRAM													
SPDCA 234H3002	06275		1/4			1	Y70952	04/08/88	04/08/88	04/08/88	P	04/08/88	Z
261C	RWCU 150L INST						C7B306						
RMVD PER SNUBBER REDUCTION PROGRAM													
SPDCA 234H3014	21		1/4			1	Y70952	04/05/88	04/05/88	04/06/88	P	04/06/88	Z
261C	RWCU 150L INST						C7B306						
RMVD PER SNUB RED PROG													

*** NOTES ***

X = TESTED OUT - NOT ACTUALLY TESTED, BUT CREDIT TAKEN

V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX C

1ST GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
SPDCA 234H3015	23035		1/4			1	Y70952	04/05/88	04/05/88	04/06/88	P	01/06/88	Z
261C	RWCU ISOL INST						C78306						
RMVD PER SNUB RED PROG													
SPDCA 237H5015	28772		1/4		C F	1	Y70909	03/22/88	03/22/88	03/24/88	P	03/24/88	03/30/88
262C	VESSEL TD 2C005												
SPDCA 243H5001	21557		1		S	1	Y70474	03/06/88	03/06/88	03/06/88	P	03/06/88	03/08/88
264B	RXR B LOOP BULK												
SPDCA 243H5001		00242		1	S	1	Y70474	03/06/88	03/06/88	03/06/88	P	03/06/88	03/08/88
264B	RXR B LOOP BULK												
SPDCA 245H2603	16422		1/4		S	1	Y70922	03/07/88	03/07/88	03/07/88	P	03/07/88	
262A	VESSEL SPIDER												

*** NOTES ***

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---
SPDCA 246H3006 283 MAIN STEAM LCS	28730		1/4			1	V70953	04/07/88	04/07/88	04/08/88	P	04/08/88	04/08/88
SPDCA 246H3007 283 MAIN STEAM LCS	24376		1/4			1	V70857	04/14/88	04/14/88	04/15/88	D	04/18/88	04/19/88
SPDCA 246H3008 283 MAIN STEAM LCS	24377		1/4			1	V70857	04/14/88	04/14/88	04/15/88	P	04/15/88	04/19/88
SPDCA 247H3 243H MAIN S	154		1/2			1	V70859	03/22/88	03/22/88	03/23/88	P	03/23/88	03/23/88

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APPENDIX: C

IS: GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPOCA 247H3003	24371		1/4			1	Y70857	03/23/88	03/23/88	03/24/88	P	03/24/88	04/04/88
283	MAIN STEAM LCS												
SPOCA 248H3001	23609		1/4			1	Y70858	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
283	MAIN STEAM LCS												
SPOCA 248H3003	17193		1/2			1	Y70857	03/23/88	03/23/88	03/24/88	P	03/24/88	04/04/88
283	MAIN STEAM LCS												
SPOCA 248H3004	23610		1/4			1	Y70857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/20/88
283	MAIN STEAM LCS												
SPOCA 249H3001	17194		1/2			1	Y70857	04/04/88	04/04/88	04/04/88	P	04/04/88	04/19/88
283	MAIN STEAM LCS												

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Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11:13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SYS	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	REINSTLD
-----	-----	-----	---	---	-----	---	-----	-----	-----	-----	---	-----	-----
REMARKS	DESCRIPTION												
			1/2			1	V70857	04/04/88	04/04/88	04/04/88	P	04/04/88	04/19/88
			1/2			1	V-0857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/21/88
			1/2			1	V70854	03/17/88	03/17/88	03/18/88	P	03/18/88	03/22/88
			1/2			1	V70854	03/17/88	03/17/88	03/18/88	P	03/18/88	03/22/88
			1/2			1	V70854	03/17/88	03/17/88	03/18/88	P	03/18/88	03/22/88

SPOCA 249H3002 17195
 283 MAIN STEAM LCS

SPOCA 249H3004 17196
 283 MAIN STEAM LCS

SPOCB 201H 51 14426
 253 58LC

SPOCB 201H 52 14427
 253 58LC

SPOCB 201H 53 14428
 253 58LC

*** NOTES ***

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	S-1	5-2	ORIG'N	DC	WA	NUM	REMOVED	WYLE	REC	TESTED	PASS	REL	BY	REINSTLD
SYS	SYSTEM DESCRIPTION	---	---	---	---	---	---	---	---	---	---	---	---	---	---
REMARKS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
COMMENTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SPOCB 201H 54	17221	1/2			1	Y70854	03/17/88	03/17/88	03/17/88	03/18/88	03/18/88	P	03/18/88	03/18/88	03/22/88
253	SBLC														
SPOCB 201H 55	14425	1/2			1	Y70854	03/17/88	03/17/88	03/17/88	03/18/88	03/18/88	P	03/18/88	03/18/88	03/22/88
253	SBLC														
SPOCB 208H5006	24369	1/4		C	1	Y70911	03/22/88	03/22/88	03/22/88	03/23/88	03/23/88	F	03/29/88	03/29/88	03/30/88
264B	RXR B LOOP BULK														
	REPL W/28786														
	NCB BR-0172														
SPOCB 208H5007	06314	1/4		C	1	Y70911	03/22/88	03/22/88	03/22/88	03/23/88	03/23/88	P	03/23/88	03/23/88	02/30/88
264B	RXR B LOOP BULK														
SPOCB 211H5008	24392	1/4		S	1	Y70923	03/12/88	03/12/88	03/12/88	03/12/88	03/12/88	P	03/13/88	03/13/88	03/14/88
264A	RXR A LOOP BULK														

*** NOTES ***

X = TESTED BUT NOT ACTUALLY TESTED, BUT CREDIT TAKEN

Y = UC & SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED, CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.46

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SPG88 2344	3	24362	1/4			1	Y70857	04/18/88	04/18/88	04/19/88	P	04/19/88	04/21/88
283	MAIN STEAM LCS												
SPH88 201H2006	23606		1/4			1	Y70851	04/16/88	04/16/88	04/19/88	P	04/19/88	04/20/88
250	RCIC STEAM EXH												
SPH88 208H5004	14405		1/2			1	Y70853	03/18/88	03/18/88	03/18/88	P	03/18/88	04/02/88
252	HPCI STM EXH												
SPH88 208H5008	14407		1/2			1	Y70853	03/21/88	03/21/88	03/21/88	P	03/21/88	04/02/88
252	HPCI STM EXH												
SPH88 251H5005	14423		1/4		5	1	Y70462	03/06/88	03/06/88	03/06/88	P	03/06/88	03/14/88
252	HPCI PUMP SUCTION												

*** NOTES ***

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Y = DC & SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

Z = REDUCTION SNUBBERS TESTED, BUT NOT ACTUALLY RE-INSTALLED. CREDIT TAKEN FOR RE-INSTALLATION

APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

SNUBBER ID	SERIAL	SERIAL2	FUNCTIONAL TEST TRACKING REPORT		-- REPORT --		TESTED	PASS FAIL	REL BY WYLE	REINSTLD			
			S-1	S-2	ORIGIN	DC					WA NUM	REMOVED	WYLE REC
SYS	SYSTEM DESCRIPTION												
REMARKS													
COMMENTS													
SPHBC 220H9001	14436		1/2			2	Y70943	04/08/88	04/08/88	04/09/88	P	04/09/88	04/09/88
235	FUEL POOL COOLING												
SPHBC 220H9006	24363		1/4			2	Y70943	04/08/88	04/08/88	04/09/88	P	04/09/88	04/09/88
235	FUEL POOL COOLING												
SPHBC 239H5012	28775		1/4		F	1	Y70452	03/14/88	03/14/88	03/14/88	P	03/14/88	03/16/88
254B	ESW LOOP B												
SPHBD 202H 53	06067		3		S	5	Y70932	03/14/88	03/14/88	03/15/88	P	03/15/88	03/16/88
264B	RXR B LOOP BULK												
WAS ON WA Y70968, AS A BULK													
SPHBD 229H9017	23611		1/4		S	6	Y70917	03/12/88	03/12/88	03/13/88	P	03/13/88	Z
214	RBCCW						C78330						
RMVD PER SNUB RED PROG													

*** NOTES ***

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION							CWO NUM						
REMARKS													
COMMENTS													
SPHBD 229H9022 214 RBCCW	14446		1/2			6	Y70941 C78329	04/12/88	04/12/88	04/12/88	P	04/12/88	Z
RMVD PER SNUB RED PROG													
SPHBD 229H9024 214 RBCCW	20843		1			6	Y70948 C78329	04/12/88	04/12/88	04/12/88	P	04/12/88	Z
RMVD PER SNUB RED PROG													
SPHBD 229H9024 214 RBCCW		20844		1		6	Y70958 C78329	04/12/88	04/12/88	04/12/88	P	04/12/88	Z
RMVD PER SNUB RED PROG													
SPHBD 230H9022 214 RBCCW	20833		1			6	Y70958 C78327	04/12/88	04/12/88	04/12/88	P	04/12/88	Z
RMVD PER SNUB RED PROG													
SPHBD 230H9028 214 RBCCW	13097		1/4			6	Y70941 C78326	04/12/88	04/12/88	04/12/88	P	04/12/88	Z
RMVD PER SNUB RED PROG													

*** NOTES ***

K = "TESTED OUT" NOT ACTUALLY TESTED, BUT CREDIT TAKEN

V = DC 6 SNUBBERS NOT TO BE TESTED - NO CREDIT TAKEN

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIALZ	5-1	5-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS	REL BY	REFINSTLD
SVS	SYSTEM DESCRIPTION	---	---	---	---	---	CWO NUM	---	---	---	FAIL	WYLE	---
REMARKS	-----	---	---	---	---	---	---	---	---	---	---	---	---
		1				6	V70958 C78327	04/12/88	04/12/88	04/12/88	P	04/12/88	Z
		1		S		6	V70926 C78330	03/09/88	03/09/88	03/09/88	P	03/09/88	Z
		1				6	V70958 C78328	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
		1/2				5	V70462 C78295	03/06/88	03/06/88	03/06/88	P	03/06/88	Z
		1/4				6	V70943 C78325	04/08/88	04/08/88	04/09/88	P	04/09/88	Z

*** NOTES ***

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
SPHBD2052H9005	21539		1			6	Y70960	04/11/88	04/11/88	04/11/88	P	04/11/88	Z
235	FUEL POOL COOLING												
RMVD PER SNUB RED PROG													
SPHBD2084H9002	24362		1/4			6	Y70955	03/31/88	03/31/88	03/31/88	P	03/31/88	Z
264B	RXR B LOOP BULK												
RMVD PER SNUB RED PROG													
SPHBD2084H9006	06315		1/4			6	Y70954	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
264A	RXR A LOOP BULK												
RMVD PER SNUB RED PROG													
SPHBD2089H9009	23633		1/4			6	Y70955	03/31/88	03/31/88	03/31/88	P	03/31/88	Z
264B	RXR B LOOP BULK												
RMVD PER SNUB RED PROG													
SPHBD2089H9C15	17187		1/2			6	Y70954	04/12/88	04/12/88	04/13/88	P	04/13/88	Z
264A	RXR A LOOP BULK												
RMVD PER SNUB RED PROG													

*** NOTES ***

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88 TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SUBBER ID	SERIAL	SYS	SYSTEM DESCRIPTION	REMARKS	COMMENTS	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY	WYLE	REINSTLD
-----	-----	---	-----	-----	-----	---	---	-----	---	-----	-----	-----	-----	---	-----	-----	-----
						1/2	C		6	Y70910 C78322	03/28/88	03/28/88	03/29/88	F		03/29/88	Z
						1/4			5	Y70954	04/14/88	04/14/88	04/15/88	P		04/15/88	04/16/88
						1/4	S		5	Y70924	03/14/88	03/14/88	03/16/88	P		03/16/88	03/16/88
						1/4			1	Y70854	03/17/88	03/17/88	03/18/88	P		03/18/88	03/22/88
						1/4			1	Y70854	03/17/88	03/17/88	03/18/88	P		03/18/88	03/22/88

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APPENDIX C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBERS ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

FUNCTIONAL TEST TRACKING REPORT -- REPORT 7

SNUBBER ID	SERIAL	SERIAL2	S-1	S-2	ORIGIN	DC	WA NUM	REMOVED	WYLE REC	TESTED	PASS FAIL	REL BY WYLE	REINSTLD
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
SPHCB 205H 57 22887 253 SBLC			1/4		S	1	Y70463	03/06/88	03/06/88	03/06/88	P	03/06/88	03/07/88
SPHCB 205H 59 14434 253 SBLC			1/2			1	Y70854	03/17/88	03/17/88	03/18/88	P	03/18/88	03/22/88
SPHCB 206H5003 21552 273 CAC SAMPLE			1			1	Y70881	04/16/88	04/16/88	04/16/88	P	04/16/88	04/22/88
SPHCB 206H5005 21551 273 CAC SAMPLE REPL W/20835 NCR 88-0079			1			1	Y70881	04/16/88	04/16/88	04/16/88	D	04/16/88	04/22/88
SPHCB 226H5027 21553 273 CAC SAMPLE			1		S	1	Y70475	03/06/88	03/06/88	03/06/88	P	03/06/88	03/07/88

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APPENDIX: C

ISI GROUP SNUBBER TRACKING PROGRAM
 LIST OF UNIT 2 SNUBBER ACTUALLY TESTED (ALPHA SORT)

AS OF: 08/02/88

TIME: 11.13.48

SNUBBER ID	SERIAL	SERIAL2	FUNCTIONAL TEST TRACKING REPORT		-- REPORT 7		TESTED	PASS FAIL	REL BY WYLE	REINSTLD			
			S-1	S-2	ORIGIN	DC					WA NUM	REMOVED	WYLE REC
SYS SYSTEM DESCRIPTION													
REMARKS													
COMMENTS													
						CWO NUM							
SPHCB	227H5021	14461	1/2		S	1	Y70464	03/06/88	03/06/88	03/06/88	P	03/06/88	03/08/88
273	CAC SAMPLE												
SPHCC	233H5027	14470	1/2			1	Y70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
283	MAIN STEAM BULK												
SPHRC	226H5013	24393	1/4			1	Y70855	03/17/88	03/17/88	03/18/88	P	03/18/88	03/22/88
254B	ESW LOOP B												
SPJBD	28BH2000	14451	1/2			5	Y70957	03/30/88	03/30/88	03/31/88	P	03/31/88	04/12/88
263	MAIN STEAM BULK												

TOTAL 524

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APPENDIX: C

MECHANICAL
MAINTENANCE

NIS-2 FORMS

August 31, 1988

Tim Steingass ISI

MEMORANDUM

Please find attached the NIS-2 Forms completed by the Maintenance Section for the Unit 2 Second Fuel Cycle.

If you have any questions on the contents please contact Brian Willie at X-3324.

F.G. Butler

F.G. Butler
Supervisor of Maintenance - SSES

Attachment

RAFH/rlb

cc: S.K. Shah
B.J. Willie

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 2 First Refuel Outage to the completion of the Second 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.

MECHANICAL MAINTENANCE DETAILED LISTING

<u>SYSTEM/CLASS</u>	<u>WA NUMBER</u>	<u>DESCRIPTION</u>
225A/II	V83380	Grind out body-bonnet welds and reweld SV-22649.
225A/II/III	V74103 V83379 V83380 V83381 V83382 V83611	Grind out tacks, retack, replace main disk on SV-22654B, SV-22643, SV-22649, SV-22644, SV-22648, SV-22654A.
225A/III	V64696	Replace seal & stem assembly from PCV 22643.
225A/III	V64717	Grind out body-bonnet welds & reweld valve 2-26-028.
225A/III	V73615	Grind out tacks & retack PCV-22643.
225A/III	V73617	Grind out tacks & retack PCV-22648.
225A/III	V73306	Grind out body-bonnet welds & reweld valve 226-066.
245A/II	V73370	Remove indications from flange faces of Bearing Covers 7-203 & 8-203 from valve HV241F032B.
245A/II	V73246	Remove indications from flange faces of Bearing Covers 5-203 & 6-203 from valve HV241F032A.
249B/II	V64912	Replace 6 studs & 6 nuts on body-bonnet connection for valve PV251F052A.
249B/II	V74185	Drill & Tap 1/8" NPT injection port, install injection fitting, & seal the gland for PV-E11-2F052B.
249G/II	V74060	Machine & weld up pressure seal area in valve body HV-E11-2F050B.
250A/II	V43628	Replace spring in valve PSV250F017 to change set pressure from 150 psi to 180 psi.
251A/II	V64957	Replace disk on valve 2-52-005. Tack weld hinge supports to brackets.

<u>SYSTEM/CLASS</u>	<u>WA NUMBER</u>	<u>DESCRIPTION</u>
252A/II	V73415	Steel plates welded onto disk of check valve 255F005 per PMR 87-9097.
252A/II	V65031	Replace stem/disk assembly & backseat bushing for Yarway valve 2RV-LSH-2N024.
252B/II	U73019	Machine gasket sealing area & bolt circle, and build-up weld on top side of Stop Valve Balance Chamber Cover of valve FV-25612.
252B/II	U73019 U73020	Fabricate & install test connection to Stop Valve FV-25612.
253A/II	V83322	Replace Trigger Assemblies & Inlet Fittings on Explosive Actuated Valves C41-2F004A/B.
255B/II	V83903	Replace plug in Dragon Valve W-22-19
259/MC	V73559	Replace damaged Containment Head Hold Down Nut.
261B/III	V73469	Pump seal gland casing nuts replaced from pump 2P221B.
261B/III	V83482	Replace seal gland plate on pump 2P221A.
261B/III	V65003	Replace 24 studs and nuts on Heat Exchanger 2E207.
262A/I	V63128	Upgraded NIS-2, generated upon receipt of corrected data report, for the stem/disc assembly of valve HV-B21-F002.
262A/I	V63382	Replace two ring flange cap screws on CRD S/N A4528.
262A/I	V74181	Machine poppet on HV-2F022B.
262A/I	V74051	Replace one body-bonnet stud & nut on HV-241F028A.
262A/I	V83153	Replace MSRV PSV241F013H, machine one inlet stud hole, & replace (5) inlet body studs.
262A/I	V83155	Replace MSRV PSV241F013K & one inlet body stud.
262A/I	V83156	Replace MSRV PSV241F013B, one nozzle, & (5) inlet stud nuts.
262A/I	V83274	Replace MSRV PSV241F013N.
262A/I	V83275	Replace MSRV PSV241F013R, one inlet body stud, & (12) inlet stud nuts.

<u>SYSTEM/CLASS</u>	<u>WA NUMBER</u>	<u>DESCRIPTION</u>
262A/I	V83282	Replace MSRV PSV241F013A, one nozzle, & one inlet body stud.
262A/I	V83283	Replace MSRV PSV241F013C, one nozzle, & (2) inlet body studs.
262A/I	V83284	Replace MSRV PSV241F013E, (2) inlet body studs, one disc insert, & one nozzle.
262A/I	V83285	Replace MSRV PSV241F013G, one nozzle, & (4) inlet body studs.
262A/I	V83286	Replace MSRV PSV241F013J, one inlet body stud, & (9) inlet stud nuts.
262A/I	V83287	Replace MSRV PSV241F013M, machined (2) inlet stud holes, replace one nozzle, (4) inlet body studs, & (10) inlet stud nuts.
262A/I	V83288	Replace MSRV PSV241F013P, machined one inlet stud hole, replace nozzle, disc insert, (4) inlet body studs, & one 2-Diameter stud.
262A/I	V83289	Replace MSRV PSV241F013S and nozzle.
262A/I	V83290	Replace MSRV PSV241F013L.
262A/I	V83291	Replace MSRV PSV241F013F.
262A/I	V83292	Replace MSRV PSV241F013D.
264B/I	V73376	Grind clip off plate from hanger SP-DCA-250-H5004 then reweld.
264B/I	V73376	Replace pipe section & fitting from pipe SP-DCA-250-1.
264B/I	V73376	Replace vent valve 243F025B.
264B/I	V73394	Buff out gouges between field welds 4 & 5 of pipe SP-DCA-250-1. NCR 87-0167.
264B/I	V73002	Replace Seal Cartridge Assembly on pump 2P401A.
264B/I	U73004 U73006	Seal weld gland spacer to bonnet on valve HV243F031A. PMR 85-8026.
264B/I	U73005 U73007	Seal weld gland spacer to bonnet on valve HV-2F031B and 23B. Cut out piece of vent pipe from SP-DCA-250-1 & SP-DCA-251-2.
264B/I	V83621	Replace Seal Cartridge Assembly on pump 2P401B.

<u>SYSTEM/CLASS</u>	<u>WA NUMBER</u>	<u>DESCRIPTION</u>
273A/II	V63045	Replace isolation valve SV-25744A.
273A/II	V63796	Perform build-up weld & grind to flush on pipe SP-HCB-209-3.
273A/II	V73783	Replace valve SV-25742A.
273A/II	V74106	Grind out tacks, replace main disk, retack, & remove indications on valve SV-25782B.
273A/II	V74107	Grind out tacks, replace main disk, & retack valve SV-25780B.
273A/II	V74108	Grind out tacks, replace main disk, & retack valve SV-25776B.
273A/II	V74109	Grind out tacks, replace main disk, & retack valve SV-25774B.
273A/II	V83316	Grind out tacks, replace all main disks, & retack valves SV-25744B, 45B, 46B, 47B, & 48B.
273A/II	V83317	Grind out tacks, replace all main disks, & retack valves SV-25744A, 45A, 47A, & 48A.
273A/II	V83502	Grind out tacks, replace all main disks, & retack valves SV-25740A, 50A, 52A, 80A, & 82A.
273A/II	V83503	Grind out tacks, replace all main disks, & retack valves SV-25740B, 50B, & 52B.
273A/II	V74111	Grind out tacks, replace main disk, & retack valve SV-25742B.
273A/II	V73733	Grind out tacks, replace main disk, & retack valve SV-25746A.
283A/I	V73368	Replace disk & backseat bushing on valve 2F025F.
283A/I	V83844	Replace class II with class I disk & backseat bushing on valve 2F025F.
283A/II	V73982	Remove the socket welds on old valves. Socket weld in the replacement valves HV-20112A1, C1, & D1. Tack weld the yoke to body on all three valves.
283A/II	V73058	Replace HV-20112B1 with new valve; tack weld body-to-net.
283A/II	V73059	Replace valve 3RV-LSH-20112A.

<u>SYSTEM/CLASS</u>	<u>WA NUMBER</u>	<u>DESCRIPTION</u>
283A/II	V64857	Replace disk & backseat bushing on valve 3RV-LSH-20108.
283A/II	V74002	Replace valve HV-20108A and tack weld yoke to body.
283A/II	V65040	Replace level switch LSHH-20112C (non-ASME), piece of 1" pipe, & one 1" 90° elbow (SP-DBB-204-2).
283A/II	V64929	Replace level switch LSL-20112A (non-ASME) and piece of 1" pipe SP-DBB-202-4.
283E/III	V83155	Machine oversize bolts; replace (2) bolts, (4) nuts, & one pipe clamp spacer. Replace pin assembly for hanger SP-HCC-238-H5004.
283E/III	V83285	Replace (4) studs & (8) nuts from 2T-403G flanges.

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

1. Owner Pennsylvania Power & Light Co. Date 10-20-86
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA #V64696
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 225 A, CL III, Primary Containment Instr. Gas
5. (a) Applicable Construction Code ASME III 19 74 Edition, WINTER 74 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seal & Stem Assembly	Target Rock - none -		N/A	PCV-22643	1979	REPLACED	No
Seal & Stem Assembly	Target Rock (see remarks)		N/A	PCV-22643	1981	REPLACEMENT	No

7. Description of Work Replaced Seal & Stem Assy from pressure control valve PCV-22643.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Except
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

AS-15A
 10/24/86
 10/27

FORM NIS-2 (Back)

9. Remarks Seal & Stem Assembly P/N is 200948-1. The Lower Retainer's (the only pressure retaining part of the Seal & Stem Assy) Heat No. is C28540-3.

CERTIFICATE 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. Applicable Manufacturer's Data Reports to be attached
repair or replacement

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date N/A
 Signed [Signature] Date 5-2 1988
 Owner or Owner's Designee, Title SUPERINTENDENT OF PLANT

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 26 1988 to MAY 2 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date May 9 1988

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

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

Date 3-14-88

Sheet 1 of _____

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

Unit 2

WA #V64717
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System Primary Containment Instr. Sys, 225 A, CL II

5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 74 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Required or Replaced and Replacement Components

Name of 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 Wagner	1606B	N/A	2-26-02B	1976	Repaired	Yes

7. Description of Work Grind out body-knock seal weld for internal work; reweld after reassembly.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 150 psig Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

WJH Signed [Signature] Date 5-3 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period DEC 3 1987 to APR 7 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pugh Inspector's Signature Commissions NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date MAY 9 1988

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

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

Date 2-27-88

Sheet 1 of 1

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

Unit 2

WAT# V73615, Code Repair No. 87-225-003
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System 2-25 A, CL. III, Primary Containment Instrument Gas

5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Pressure Control Valve	Target Rack	75KK-901-2	N/A	RV-22643	1979	Repaired	Yes

7. Description of Work Grind out tack welds; re tack weld after inspections.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 1800 psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 7.8 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period AUG 6 1987 to JUN 7 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Poyen III Commissions NB7960 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4-10-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA # V83322
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by CWE Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 253A, CL. II, Standby Liquid Control
5. (a) Applicable Construction Code ASME III 19 77 Edition, Summer 77 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Trigger Assembly	CONAX	VALVE S/N: 453	N/A	VALVE NO. C41-2F004A	1976	Replaced	NO YES
Trigger Assembly	CONAX	2833	2833	* SEP: 199 G.E.: C070	1986	Replacement	NO YES
Inlet Fitting	CONAX	VALVE S/N: 453	N/A	VALVE NO. C41-2F004A	1976	Replaced	NO YES
Inlet Fitting	CONAX	2779	2779	* SEP: 199 G.E.: C070	1986	Replacement	NO YES
Trigger Assembly	CONAX	VALVE S/N: 452	N/A	VALVE NO. C41-2F004B	1976	Replaced	NO YES

7. Description of Work Replaced Trigger Assemblies & Inlet Fittings on two Explosive Actuated Valves.
8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure Except
 Other Pressure 1280 psig Test Temp. AMBIENT °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

* (Other Identification) VALVE NO.: C41-2F004A

FORM NIS-2 (Back)

5. Remarks N-2 FORMS ATTACHED
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 NONE

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

Signed [Signature] Date 5-3-88
Owner or Owner's Designee, Title SUPT. OF PLANT

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNA and employed by ARKWRIGHT MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period APR 10 1988 to APR 13 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 9 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4-10-88
Name
2 North Ninth Street, Allentown PA Sheet 2 of 2
Address

2. Plant Susquehanna Stream Electric Station Unit 2
Name
Box 467, Berwick PA 18603 WA# V 83322
Address Repair Organization P. O. No., Job No., etc.

3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 253A, CL-II, Standby Liquid Control

5. (a) Applicable Construction Code ASME III 1977 Edition SUMMER 77 Addenda _____ Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 - W'1981

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Trigger Assembly	CONAX	2843	2843	** SEP: 212 G.E.: C083	1986	Replacement	NO YES
Inlet Fitting	CONAX	VALVE S/N: 452	N/A	VALVE NO. C41-2F004B	1976	Replaced	NO YES
Inlet Fitting	CONAX	2792	2792	** SEP: 212 G.E.: C083	1986	Replacement	NO YES

** (Other Identification) VALVE NO. : C41-2F004B

RAF# 5-2-88

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

1. Owner Pennsylvania Power & Light Co.
Name

Date 6-19-88

Two North Ninth St., Allentown, PA 18101
Address

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

P.O. Box 467, Berwick, PA 18603
Address

WA# V 83903, Code Repair # BR-255-001
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Ozer
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

Address

4. Identification of System 255-B, CL II, CRD Hydraulic

5. (a) Applicable Construction Code ASME III 1974 Edition, 12-31-75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Plug	Joslyn Stearns Less Steel	HT # 66016	N/A	W-22-19	1977	Replaced	No
Plug	Dragon	HT # 24-0054	N/A	W-22-19	1981	Replacement	No

7. Description of Work Replace plug in Dragon Valve W-22-19.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 1410 psig Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks CofC for plug attached.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 J. Blakeslee Date August 30, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 Mutua Insurance Co. of Waltham, MA have inspected the components described

in this Owner's Report during the period JUN 19 1988 to JUN 20 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 30 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 6-11-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
 2. Plant Susquehanna Steam Electric Station Unit 2
Name
F.O. Box 467, Berwick, PA 18603 WA # V73559, Code Repair # 88-259-001
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 2-59, Class MC, subsection NE, Primary Containment Head
1493, 1522, 1563,
 5. (a) Applicable Construction Code ASME III 19 70 Edition, Summer 72 Addenda. 1567, & 1571 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1983 Addenda.
1981

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Head Hold Down Nut	Installer: CB & I	N/A	N/A	Drywell Head No. X3	1976	Replaced	No
Containment Head Hold Down Nut	Cardinal	HT #: 09125	N/A	Drywell Head No. X3	1985	Replacement	No

7. Description of Work Replace damaged nut
 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NOTE RAFA 8-4-88 ASSOCIATED MAT'L CERT ATTACHED.
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-8-88, 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 26 1988 to MAR 29 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 11 1988

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

1. Owner Pennsylvania Power & Light Co. Date 11-26-87
Name
Two North Ninth St., Allentown, PA 18101
Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address W/O # Y73469
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-6/B, CL-3, REACTOR WATER CLEANUP
5. (a) Applicable Construction Code PUMPIVALVE 1968 Edition, NA Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUT 3/4"-10 UNC	UNION PUMP	NA	NA	PUMP: # 2P-221B # 284174	1972	REPLACED	NO
HEAVY HEX NUT 3/4"-10 UNC	CARDINAL INDUSTRIES	MARK # 2HC	NA	# 2P-221B	1985	REPLACE- MENT	NO

7. Description of Work PUMP SEAL GLAND CASING NUTS TO BE REPLACED.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks CERTIFICATE OF CONFORMANCE ATTACHED.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 W.R. Rogers III Date 12.14, 19 87
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUL 11 1987 to JUL 16 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NJRS IS
Inspector's Signature National Board, State, Province, and Territories

Date DEC. 22, 19 87

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

1. Owner Pennsylvania Power & Light Co. Date 6-8-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V83482, Code Repair # 88-261-001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Z-61B, CL III, Reactor Water Clean-Up
5. (a) Applicable Construction Code ASME III 1968 P&V Code Edition Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seal Gland Plate	Union	N/A	N/A	2P-221A	1972	Replaced	No
Seal Gland Plate	Union	HT # 71366	N/A	2P-221A	1987	Replacement	No

7. Description of Work Replace Seal Gland Plate on pump 2P221A.
8. Tests Conducted: Hydrostatic: Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1006 psi Test Temp. 167 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Seal Glands Plate Mat'l Cert Attached.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-8, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAY 5 1988 to JUN 8 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 FA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG 11, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 12-20-86
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V65003, Code Repair # 87-26-001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-G1 B, CL. III, Reactor Water Clean-Up
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(24) 1/2" Studs	Installer: G.E.	N/A	N/A	2E-207	1972	Replaced	No
(24) 1/2" Studs	Texas Bolt Co.	HT# 8895101 TRACE# PK83	N/A	2E-207	1987	Replacement	No
(24) 1/2" Cap Nuts	Installer: G.E.	N/A	N/A	2E-207	1972	Replaced	No
(24) 1/2" Cap Nuts	Southern Bolt, HUB Inc.	R531A R531B	N/A	2E-207	1987	Replacement	No

7. Description of Work Replace 24 Studs & Nuts on Regen Ht. Exchanger.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 920 psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAY 4 1987 to MAY 5 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 22 19 88

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

1. Owner PENNSYLVANIA POWER & LIGHT CO. Date 5/3/88
Name
2 NORTH 9th ST. ALLEN TOWN, PA. 18101
Address
 2. Plant SUSQUEHANNA STATION Unit 2
Name
P.O. BOX 467 BERWICK, PA. 18603
Address WA V63128
Repair Organization P.O. No., Job No., etc.
 3. Work Performed by OWNER Type Code Symbol Stamp N.A.
Name Authorization No. N.A.
Address Expiration Date N.A.
 4. Identification of System Reactor Vessel 2-62A-1
 5. (a) Applicable Construction Code ASME III 19 74 Edition, W74 Addenda, N.A. Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, 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)
Disc	NOVA/LOWMET	A5-A7	NA	HV-B21-F002	1977	replaced	N
STEM Disc Assembly	YARWAY	DS-D	NA	HV-B21-F002	1982	replacement	N

7. Description of Work REWORK VALVE INTERNALS, REPLACE STEM/DISC ASSEMBLY.
 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1009 psi Test Temp. 176 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 DATA REPORT ATTACHED.
Applicable Manufacturer's Data Reports to be attached

THIS IS AN UPDATED NIS-2 FORM. THE PREVIOUS ONE SUBMITTED NOV. 1986 HAD AN INCORRECT N-2 DATA REPORT ATTACHED. THE MANUFACTURER HAS SINCE SUPPLIED A CORRECTED N-2 DATA REPORT & IT IS ATTACHED TO THIS NIS-2 REPORT.

CERTIFICATE 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 NONE

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

Signed [Signature] Date 5-5-88, 1988
Owner or Owner's Designee, Title ASUPT. OF PLANT

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNA. and employed by AREWRIGHT MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP 10 1988 to OCT 5 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogus III Commissions NB7900 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 9 1988

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

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

Date 7-14-87

Sheet 1 of 1

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

Unit 2

WA# V13382, Code Repair # 87-262-001
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System 2-62A, CL-I, Reactor Vessel

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, 1361 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Ring Flange Cap Screws (2)	GE	117C451602	N/A	CRD: A4528	1981	Replaced	No
Ring Flange Cap Screws (2)	GE	Heat #: ET-7	N/A	CRD: A4528	1980	Replacement	No

7. Description of Work Replace (2) Ring Flange Cap Screws on CRD A4528.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt (see remarks)
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Testing to be completed upon installation of RD
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8.12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 4 1987 to JUN 11 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Rogan Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 22 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4-21-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V741B1, Code REPAIR # 88-283-009
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-62 A, CL. I, Reactor Vessel
5. (a) Applicable Construction Code ASME III 19 71 Edition, SUMMER 1971 Addenda, 1535-2 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
POCKET	CANN & SAUL	9-221	N/A	HV-2F022B	1974	Repaired	No

7. Description of Work Repair Pocket by Machining due to high LLRT leakage
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1006 psi Test Temp. 167 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8/8 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 11 1988 to APR 21 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 11 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5-20-88
Sheet 1 of 9

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

Unit 2
(see sheet 8)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System 2-62A, CL. I, Reactor Vessel

5. (a) Applicable Construction Code ASME III Div. 1 1971 Edition, - No - Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81 1567 & 1711

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of 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	Cover studs	Jos. Dyson	HT #: 3118937	N/A	HV241F028A	1974	Replaced	No
1	Cover studs	Atwood & Morrill	HT #: 6053403	N/A	HV241F028A	1985	Replacement	No
1	Hex Nut	Jos. Dyson	HT #: 3118937	N/A	HV241F028A	1974	Replaced	No
1	Hex Nut	Atwood & Morrill	Trace: G 72 HT #: 8099157	N/A	HV241F028A	1985	Replacement	No
2	MSRV	Crosby	N63790-00-0085	N/A	PSV241F013H	1981	Replaced	Yes

7. Description of Work (see sheet 8)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 100 psi Test Temp. 167 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 FORMS FOR REPLACEMENT VALVES ATTACHED.
Applicable Manufacturer's Data Reports to be attached
C OF C'S FOR REPLACEMENT NOZZLES & DISC INSERTS
ATTACHED.

CERTIFICATE OF COMPLIANCE ~~repair~~ &
repair or replacement

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 7-28 19 78
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arlowright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during period FEB 11 1988 to MAY 20 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roggen III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 3 1988

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

1. Owner Pennsylvania Power & Light Co. Date 5-20-88
Name
Two N. 9th St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 2 of 9
Name
Berwick, PA 18603 Unit 2
Address
(see sheet 8)
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-62A, CL I, Reactor Vessel
5. (a) Applicable Construction Code ASME III Div/19 71 Edition, NO Addenda, N/A Code C
ASME III Div/19 71
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter 81 1567 & 1711

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamp Yes or No
2	MSRV	Crosby	N63790-00-0031	N/A	PSV241F013H	1980	Replacement	YES
3	MSRV	Crosby	N63790-00-0031	N/A	PSV241F013H	1980	Repaired	YES
3	Inlet Body Studs (5)	Crosby	S/N: N93216 Trace: B/W6	N/A	PSV241F013H	1981	Replaced	NO
3	Inlet Body Studs (5)	Vitco	Heat No. 97668 Trace No. C23	N/A	PSV241F013H	1987	Replacement	NO
4	MSRV	Crosby	N63790-00-0094	N/A	PSV241F013K	1981	Replaced	YES
4	MSRV	Crosby	N63790-00-0088	N/A	PSV241F013K	1980	Replacement	YES
5	Inlet Body Stud (1)	Crosby	S/N: N93216 Trace: B/W6	N/A	PSV241F013K	1981	Replaced	NO
5	Inlet Body Stud (1)	Vitco	Heat No. 97668 Trace No. C23	N/A	PSV241F013K	1987	Replacement	NO
6	MSRV	Crosby	N63790-00-0112	N/A	PSV241F013B	1981	Replaced	YES
6	MSRV	Crosby	N63790-00-0026	N/A	PSV241F013B	1980	Replacement	YES
7	Nozzle	Crosby	N93184-99-0140 36-0123	N/A	PSV241F013B	1981	Replaced	NO
7	Nozzle	Crosby	N93184-36-0123	N/A	PSV241F013B	1987	Replacement	NO
8	MSRV	Crosby	N63790-00-0093	N/A	PSV241F013N	1981	Replaced	YES
8	MSRV	Crosby	N63790-00-0027	N/A	PSV241F013N	1980	Replacement	YES
9	MSRV	Crosby	N63790-00-0090	N/A	PSV241F013R	1981	Replaced	YES

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

1. Owner Pennsylvania Power & Light Co. Date 5-20-88
Name
Two N. 9th St., Allentown, PA 18101
Address Sheet 3 of 9
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address (see sheet 8)
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System 2-G2 A, C.L.I., Reactor Vessel
5. (a) Applicable Construction Code ASME III Div 1 Edition 71 Addenda Part 7-6
ASME III Div 1 Edition - N/A - Addenda N/A Code Ca
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter 81 1567 & 1111
6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamp (Yes or No)
9	MSRV	Crosby	N63790-00-0032	N/A	PSV241F013R	1980	Replacement	Yes
10	Inlet Body Stud (1)	Crosby	3/4" N93216 Trace: BW6	N/A	PSV241F013R	1981	Replaced	No
10	Inlet Body Stud (1)	Vitco	Heat No. 9766E Trace No. C23	N/A	PSV241F013R	1987	Replacement	No
11	Inlet Stud Nuts (12)	Crosby	N93218 Trace: G35	N/A	PSV241F013R	1981	Replaced	No
11	Inlet Stud Nuts (12)	Vitco	Heat: 8887049 Trace: WAZ-1	N/A	PSV241F013R	1987	Replacement	No
12	MSRV	Crosby	N63790-00-0128	N/A	PSV241F013A	1980	Replaced	Yes
12	MSRV	Crosby	N63790-00-0085	N/A	PSV241F013A	1981	Replacement	Yes
13	Inlet Body Studs (1)	Crosby	3/4" N93216 Trace: BW6	N/A	PSV241F013A	1981	Replaced	No
13	Inlet Body Studs (1)	Vitco	Heat No. 9766E Trace No. C23	N/A	PSV241F013A	1987	Replacement	No
13	Nozzle	Crosby	N43184-35-0099	N/A	PSV241F013A	1981	Replaced	No
13	Nozzle	Crosby	N43184-37-0040	N/A	PSV241F013A	1981	Replacement	No
14	MSRV	Crosby	N63790-00-0129	N/A	PSV241F013C	1980	Replaced	Yes
14	MSRV	Crosby	N63790-00-0086	N/A	PSV241F013C	1981	Replacement	Yes
15	Inlet Body Studs (2)	Crosby	3/4" N93216 Trace: BW6	N/A	PSV241F013C	1981	Replaced	No
15	Inlet Body Studs (2)	Vitco	Heat No. 9766E Trace No. C23	N/A	PSV241F013C	1987	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 N. 9th St., Allentown, PA 18101
Address

Date 5-20-88
Sheet 4 of 9

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

Unit 2
(see sheets 8 & 9)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th St., Allentown, PA 18101
Address

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

4. Identification of System 262A, CL-I, Reactor Vessel

5. (a) Applicable Construction Code ASME III Div 19 71 Edition, -No- Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter 81 1567 & 1711 RAFH 7-6-88

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
16	MSRV	Crosby	No 3790-00-0133	N/A	PSV241F013E	1980	Replaced	Yes
16	MSRV	Crosby	No 3790-00-0112	N/A	PSV241F013E	1981	Replacement	Yes
17	Inlet Body Studs (2)	Crosby	YN: N93216 Trace: Bulb	N/A	PSV241F013E	1981	Replaced	No
17	Inlet Body Studs (2)	Vitco	Heat No. 9768 Trace No. C23	N/A	PSV241F013E	1987	Replacement	No
18	Disc Insert	Crosby	N93185-33-0025	N/A	PSV241F013E	1981	Replaced	No
18	Disc Insert	Crosby	N93185-37-0072	N/A	PSV241F013E	1987	Replacement	No
18	Nozzle	Crosby	N93184-34-0008	N/A	PSV241F013E	1981	Replaced	No
18	Nozzle	Crosby	N93184-38-0062	N/A	PSV241F013E	1987	Replacement	No
19	MSRV	Crosby	No 3790-00-0034	N/A	PSV241F013G	1980	Replaced	Yes
19	MSRV	Crosby	No 3790-00-0093	N/A	PSV241F013G	1981	Replacement	Yes
20	Nozzle	Crosby	N93184-34-0014	N/A	PSV241F013G	1981	Replaced	No
20	Nozzle	Crosby	N93184-37-0048	N/A	PSV241F013G	1987	Replacement	No
20	Inlet Body Studs (4)	Crosby	YN: N93216 Trace: Bulb	N/A	PSV241F013G	1981	Replaced	No
20	Inlet Body Studs (4)	Vitco	Heat No. 9768 Trace No. C23	N/A	PSV241F013G	1987	Replacement	No
21	MSRV	Crosby	No 3790-00-0132	N/A	PSV241F013J	1980	Replaced	Yes

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

1. Owner Pennsylvania Power & Light Co.
Name

Two N. 9th St., Allentown, PA 18101
Address

Date 5-20-88

Sheet 5 of 9

2. Plant Susquehanna Steam Electric Station
Name

Berwick, PA 18603
Address

Unit 2

(see sheet 9)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Two N. 9th St., Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 2-62A, CL. I, Reactor Vessel

5. (a) Applicable Construction Code ASME III Div. 19 71 Edition, -No- Addenda, RAFH 7-6-88
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter 81 1567 & 1711

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
21	MSRV	Crosby	N63790-00-0091	N/A	PSV241F013J	1981	Replacement	Yes
22	Inlet Body Stud (1)	Crosby	S/N: N93216 Trace: BW6	N/A	PSV241F013J	1981	Replaced	No
22	Inlet Body Stud (1)	Vitco	Heat No. 97668 Trace No. C23	N/A	PSV241F013J	1987	Replacement	No
23	Inlet Stud Nuts (9)	Crosby	N93218 Trace: G35	N/A	PSV241F013J	1981	Replaced	No
23	Inlet Stud Nuts (9)	Vitco	Heat: 889049 Trace: W92-1	N/A	PSV241F013J	1987	Replacement	No
24	MSRV	Crosby	N63790-00-0020	N/A	PSV241F013M	1981	Replaced	Yes
24	MSRV	Crosby	N63790-00-0094	N/A	PSV241F013M	1981	Replacement	Yes
25	Inlet Body Studs (4)	Crosby	S/N: N93216 Trace: BW6	N/A	PSV241F013M	1981	Replaced	No
25	Inlet Body Studs (4)	Vitco	Heat No. 97668 Trace No. C23	N/A	PSV241F013M	1987	Replacement	No
25	Nozzle	Crosby	N93184-35-0104	N/A	PSV241F013M	1981	Replaced	No
25	Nozzle	Crosby	N93184-37-0050	N/A	PSV241F013M	1987	Replacement	No
25	MSRV	Crosby	N63790-00-0094	N/A	PSV241F013M	1981	Repaired	Yes
26	Inlet Stud Nuts (10)	Crosby	N93218 Trace: G35	N/A	PSV241F013M	1981	Replaced	No
26	Inlet Stud Nuts (10)	Vitco	Heat: 889049 Trace: W92-1	N/A	PSV241F013M	1987	Replacement	No
27	MSRV	Crosby	N63790-00-0073	N/A	PSV241F013P	1981	Replaced	Yes

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

1. Owner Pennsylvania Power & Light Co.
Name

Date 5-20-88

Two N. 9th St., Allentown, PA 18101
Address

Sheet 6 of 9

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

(see sheet 9)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th St., Allentown, PA 18101
Address

Authorization No. N/A
Expiration Date N/A

4. Identification of System 2-62 A, C.L.I., Reactor Vessel

5. (a) Applicable Construction Code ASME III Div. 1 19 71 Edition, - No - Addenda, N/A Code Case 24FH 7-6-88
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter 81 1567 & 1711

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
27	MSRV	Crosby	N63790-00-0090	N/A	PSV241F013P	1981	Replacement	YES
28	Disc Insert	Crosby	N93185-36-0130	N/A	PSV241F013P	1981	Replaced	No
28	Disc Insert	Crosby	N93185-37-0078	N/A	PSV241F013P	1987	Replacement	No
28	Nozzle	Crosby	N93184-35-0100	N/A	PSV241F013P	1981	Replaced	No
28	Nozzle	Crosby	N93184-37-0042	N/A	PSV241F013P	1987	Replacement	No
28	Inlet Body Studs (5)	Crosby	S/N: N93216 Trace: 8W6	N/A	PSV241F013P	1981	Replaced	No
28	Inlet Body Studs (4)	Vitco	Heat No. 47668 Trace No. C23	N/A	PSV241F013P	1987	Replacement	No
28	2-Dia Stud (1)	PP&L	Heat #: 8073413	N/A	PSV241F013P	1988	Replacement	No
28	MSRV	Crosby	N63790-00-0090	N/A	PSV241F013P	1981	Repaired	YES
29	MSRV	Crosby	N63790-00-0130	N/A	PSV241F013S	1980	Replaced	YES
29	MSRV	Crosby	N63790-00-0029	N/A	PSV241F013S	1981	Replacement	YES
30	Nozzle	Crosby	N93184-34-0011	N/A	PSV241F013S	1981	Replaced	No
30	Nozzle	Crosby	N93184-38-0065	N/A	PSV241F013S	1987	Replacement	No
31	MSRV	Crosby	N63790-00-0091	N/A	PSV241F013L	1981	Replaced	YES
		Crosby						

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5-20-88

Sheet 8 of 9

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

Unit 2

(see below)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A*

4. Identification of System 2-6ZA, CL. I, Reactor Vessel

5. (a) Applicable Construction Code ASME III Div 1 1971 Edition, -No- Addenda, N/A Code Case

RAFH 7-6-88

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81 1567 & 1711

6. Identification of Components Repaired or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
1	V74051	88-262-022	Replace one body-bowset stud & nut.
2	V83153	88-262-004	Replace MSR.V.
3	V83153	88-262-011	Machined one inlet stud hole. Replace (5) inlet body studs (one stud was oversized).
4	V83155	88-262-005	Replace MSR.V.
5	V83155	88-262-010	Replace one Inlet body stud.
6	V83156	88-262-009	Replace nozzle.
7	V83156	88-262-001	Replace MSR.V.
8	V83274	88-262-007	Replace MSR.V.
9	V83275	88-262-008	Replace MSR.V.
10	V83275	88-262-012	Replace one Inlet body stud.
11	V83275	88-262-046	Replace (12) Inlet stud nuts.
12	V83282	88-262-014	Replace MSR.V.
13	V83282	88-262-023	Replace nozzle & one Inlet body stud.
14	V83283	88-262-015	Replace MSR.V.
15	V83283	88-262-024	Replace nozzle & (2) Inlet body studs.
16	V83284	88-262-016	Replace MSR.V.
17	V83284	88-262-031	Replace (2) Inlet body studs.
18	V83284	88-262-025	Replace disc insert & nozzle.

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5-20-88
Sheet 9 of 9

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

Unit 2
(see below)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System 2-62A, CL I, Reactor Vessel

5. (a) Applicable Construction Code ASME III Div. 1 1971 Edition, - No - Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81 1567 & 1711

5. Identification of Components Repaired or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
19	V83285	88-262-017	Replace MSRV
20	V83285	88-262-026	Replace nozzle & (4) Inlet body studs
21	V83286	88-262-018	Replace MSRV
22	V83286	88-262-027	Replace one inlet body stud.
23	V83286	88-262-032	Replace (9) Inlet Stud Nuts.
24	V83287	88-262-019	Replace MSRV
25	V83287	88-262-028	Machined (2) inlet stud holes, Replaced nozzle and (4) inlet body studs.
26	V83287	88-262-033	Replace (10) Inlet Stud Nuts.
27	V83288	88-262-020	Replace MSRV.
28	V83288	88-262-029	Machined one inlet stud hole, Replaced nozzle, disc insert, (4) inlet body studs, & (1) 2-Diam. st.
29	V83289	88-262-021	Replace MSRV.
30	V83289	88-262-030	Replace nozzle.
31	V83290	88-262-006	Replace MSRV.
32	V83291	88-262-003	Replace MSRV
33	V83292	88-262-002	Replace MSRV.
34	V83156	88-262-045	Replace (5) Inlet Stud Nuts.

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

1. Owner PENNSYLVANIA POWER & LIGHT CO. Date 11-1-87
Name
TWO NORTH NINTH ST. ALLENTOWN, PA 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
PO BOX 467, BERWICK, PA 18603 WA # V73376
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp NA
Name Authorization Exp. NA
Address Expiration Date NA
4. Identification of System 2-64B, CL. 1, RECIRC. WATER LOOPS & JET PUMPS
5. (a) Applicable Construction Code ASME III 19 71 Edition, W'72 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980-W'81.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 HANGER	BECHTEL	NA	NA	SP-DCA-250-H5004	1983	REPAIRED	YES

7. Description of Work HANGER GROUND OUT, CLIP GROUND OFF PLATE, THEN REWELDED.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F EXEMPT

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 12-5 19 87
Owner or Owner's Designee, Title SUPT. OF PLANT

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNA. and employed by ALLENBRIGHT MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period APR 21 1987 to NOV 18 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William E. Rogus Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 16 19 87

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

1. Owner Pennsylvania Power & Light Co. Date 5-27-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V73617, Code Repair # 87-225-004
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System P-25 A, CL III, Primary Cont. Instr. Gas
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Pressure Control Valve	Target Rock	75AK-401-4	N/A	PCV-22648	1979	Repaired	Yes

7. Description of Work Grind out tack welds; retack.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure (see below) psi Test Temp Ambient °F

Bottle Pressure: 2128 psig ; Header Pressure: Ret. 2 psig

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is indicated on each sheet, and (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

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 3.12 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period AUG 6 1987 to MAY 10 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Rogan III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3-11-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA#V73306, Code Repair # 87-225-002
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-25A, CL. III (Value is class I), Primary Cont. Instr. Gas
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 74 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Globe Valve	Borg Warner	14951	N/A	226-066	1976	Repaired	YES

7. Description of Work Grind out body-bonnet seal weld for disassembly & inspection; re weld
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 3125 psig Test Temp. Ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-15 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUL 7 1987 to APR 9 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 1988

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

1. Owner Pennsylvania Power & Light Co. Date 10-12-87
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name Code Repair #'s
P.O. Box 467, Berwick, PA 18603 WA # Y73370, 87-245-002 & 004
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System FEEDWATER 2-45A, CL. 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, W 1972 Addenda, NONE Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FEEDWATER CHECK VALVE	ATWOOD MORRILL	4-203	NA	HV241F0326	1975	REPAIRED	YES

7. Description of Work REFACE FLANGE FACES OF BEARING COVERS 8-203 & 7-203.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1083 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

RT 10-15-87

9. Remarks N-S DATA REPORT AND NVT-G.2 VISUAL EXAMINATION

Applicable Manufacturer's Data Reports to be attached

REPORT ATTACHED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this _____ 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 10-12, 19 87
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA

have inspected the components described in this Owner's Report during the period APR 21 1987 to APR 29 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct 15, 19 87

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

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

Date 4-24-88

Sheet 1 of 1

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

Unit 2

CODE REPAIR #'S
VA# V73246; 87-245-001 & 003
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System 2-45 A, C.I. II, Feedwater System

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification VALVE #	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Bearing Cover	Penn. Rad. Labs	5-203	N/A	HV-2F032A	1975	Repaired	NO
Bearing Cover	Penn. Rad. Labs	6-203	N/A	HV-2F032A	1975	Repaired	NO

7. Description of Work Machine seating face to remove indications.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 1083 psig Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 7-18 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 18 1987 to APR 24 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pigeon III Commission NB7930 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 28 1988

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

1. Owner Pennsylvania Power & Light Co. Date 11-15-86
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address Unit 2
WA# V64912, Code Repair # 86-249-033
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-49 B, CL. II, RHR System - Steam Condensing Mode
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(6) Studs	REC Corp.	B7R- Code AA	N/A	PV-E11-2F052A	1983	Replaced	No
(6) Studs	REC Corp.	Heat # B7R	N/A	PV-E11-2F052A	1983	Replacement	No
(6) Nuts	B&G Mfr.	J2HB- Code JEI	N/A	PV-E11-2F052A	1983	Replaced	No
(6) Nuts	Cardinal	Trace: Y7	N/A	PV-E11-2F052A	1984	Replacement	No

7. Description of Work Replace 6 Studs & 6 Nuts on Bay-Bunnet Connection
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 985 psig Test Temp. 542 F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8.12. 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period NOV 14 1986 to NOV 19 1986, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roemer III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 22 1988

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

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

Date 4-15-88

Sheet 1 of 1

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

Unit 2

W# V74185, CODE REPAIR # 88-249-003
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System 2-49B, CL. II, RHR System - Steam Condensing Mode

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6" Globe Valve	Mascheilan	NOOKSA-9-A	N/A	PV-E11-2E052B	1978	Repaired	Yes

7. Description of Work Drill & Tap 1/8" NPT injection port into the packing gland & seal the gland. ^{install injection fitting}

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Value PV-E11-2F052.B can't reach system pressure
Applicable Manufacturer's Data Reports to be attached
per VPMR-7034
(mods made in)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 7-18 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 2 1988 to APR 15 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commission # NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4-9-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WASH V740X60, CODE REPAIR# 88-249-001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-49 G, CL. I, RHR - Shut down Cooling Made System
5. (a) Applicable Construction Code ASME III 1971 Edition Winter 72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve	Atwood & Merrill	4-204	N/A	HV-E11-2F020B	1975	Repaired	Yes

7. Description of Work Machine is weld up pressure seal area in valve body.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1000 psi Test Temp. 167 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 7-18 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 11 1988 to APR 10 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Regen III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 7-11-85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name Code Repair #
P.O. Box 467, Berwick, PA 18603 WAT#143628, PMR 84-3056, 85-251-001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-50 A, CL II, RCIC Water Loop System
5. (a) Applicable Construction Code ASME III, 1974 Edition, 12-31-74 Addenda, N242 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Spring	J.E. Lanergan Co.	432L13B1	N/A	PSV-E51-2FO17	1982	Replaced	No
Spring	J.E. Lanergan Co.	Heat No. 6670	N/A	PSV-E51-2FO17	1985	Replacement	No

7. Description of Work Replace spring in PSV-E51-2FO17.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure CSF Static psi Test Temp. Ambient °F
Head

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

FORM NIS-2 (Back)

9. Remarks SPRING REPLACEMENT CERT ATTACHED.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 88 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUL 11 1985 to JUL 12 1985, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 19 88

FORM NIS-2 OWNER'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 3-16-87

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

2. Plant Susquehanna Steam Electric Station Name Unit 2

P.O. Box 467, Berwick, PA 18603 Address WA# V64957, CODE REPAIR # 87-251-001
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner Name Type Code Symbol Stamp N/A

Address Authorization No. N/A
Expiration Date N/A

4. Identification of System 2-51A, CL-II, CORE SPRAY

5. (a) Applicable Construction Code ASME III 1971 Edition, WATER 72 Addenda 1516-1 & 1534 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Anchor Darling	E5854-70-3	N/A	2-52-005	1976	Repaired	Yes
Disc	Quaker Alloy	S/N: R838 HT#: B444	N/A	2-52-005	1976	Replaced	No
Disc	Anchor Darling	S/N: R895 HT#: B1857	N/A	2-52-005	1981	Replacement	No

7. Description of Work Tackweld Valve hinge support brackets. Replace disc.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 285 psig Test Temp. 75 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks FORM N-2 FOR DISC ATTACHED.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE Repair & Replacement

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 7-18 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period FEB 17 1987 to MAR 17 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Poyen III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 11-26-87
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA* V73415; PWR* 87-9097
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-52A, CL 2, HPCX WATER LOOPS
5. (a) Applicable Construction Code ASME III 19 71 Edition, W'72 Addenda 1516-1 & 1534 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
14" CHECK VALVE	ANCHOR DARLING	E5853-78-1	NA	255FC05	1975	REPAIRED	YES

7. Description of Work 17" (STEEL PLATES) WELDED ONTO VALVE DISC TO COUNTERBALANCE.
THIS REPAIR IS PER A MODIFICATION PROCEDURE. PWR 87-9097.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1300 psi Test Temp. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 12-5 19 87
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 29 1987 to APR 29 1987 5-6-87 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogue III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 10 19 87

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

1. Owner Pennsylvania Power & Light Co. Date 10-30-87
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA⁶⁶ V65031, Code Repair # 87-252-001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-52B, C-2, HPI TURBINE AUXILIARY
5. (a) Applicable Construction Code ASME III 19 71 Edition, W'72 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
				VALVE:			
DISC/STEM ASS'Y	NOVA HOWMET	MARK # AB, A9	NA	2RV-LSH-2N024 SN: AOB, 2	1977	REPLACED	NO
DISC/STEM ASS'Y	NOVA HOWMET	HT# 831-A MARK # AS, AG	NA	2RV-LSH-2N024	1976	REPLACEMENT	NO
BACKSEAT BUSHING	AL TECH STEEL	MARK # YW 793	NA	2RV-LSH-2N024	1977	REPLACED	NO
BACKSEAT BUSHING	YARWAY	HT# J9077	NA	2RV-LSH-2N024	1982	REPLACEMENT	NO

7. Description of Work DISC/STEM ASSEMBLY & BACKSEAT BUSHING OF 1" # YARWAY GLOBE VALVE
WERE REPLACED
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPY-1 DATA REPORT AND CERTIFICATE OF CONFORMANCE A&B
Applicable Manufacturer's Data Reports to be attached
ATTACHED.

CERTIFICATE 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. redo / / or replacement

Type Code Symbol Stamp N/A

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

Signed J. Blakesley Date 12/30/07, 19
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period FEB 18 1987 to FEB 23 1987 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Ryan III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 7 1988

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

1. Owner Pennsylvania Power & Light Co. Date 5-20-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
 2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA#U73019, Code Repair # 88-252-001
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 2-52 B, C, E, HPCI Turbine & Auxiliary
 5. (a) Applicable Construction Code ASME III 1980 Edition, -No- Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Stop Valve Balance Chamber Cover	Dubose Steel	Ht #: B73636	N/A	FV-25412	1986	Repaired	N

7. Description of Work Build-up weld on top of cover & Machine gasket sealing area & Bolt circle

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1175 psig Test Temp. 525 F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 3.12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 20 1988 to MAY 21 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogan III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 5-20-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name U73019, Code Repair # B1-252-004
P.O. Box 467, Berwick, PA 18603 WA#U73020, Code Repair # B1-252-003
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-52 B, CL II, HPCI Turbine & Auxiliary
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Globe Valve	Yarway	C2141	N/A	Z-56-033	1986	Replacement	Yes
1" Globe Valve	Yarway	C2142	N/A	Z-56-032	1986	Replacement	Yes
1" Pipe Sch XXS	Quanex	HT # 2M4237	N/A	SP-DBB-214-1 PC # 37	1986	Replacement	No
1" Pipe Sch XXS	Quanex	HT # 2M4237	N/A	SP-DBB-214-1 PC # 38	1986	Replacement	No
1" Pipe Sch XXS	Quanex	HT # 2M4237	N/A	SP-DBB-214-1 PC # 37	1986	Replaced	No
1" Pipe Sch XXS	Quanex	HT # 2M4237	N/A	SP-DBB-214-1 PC # 37	1986	Replacement	No

7. Description of Work Fabricate & Install 1" Test Connection on HPCI Stop Valve FV-25612
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 1175 psi Test Temp. 525 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 FORM ATTACHED FOR VALVES & CERT OF COMPLIANCE
Applicable Manufacturer's Data Reports to be attached
ATTACHED FOR PIPE.

THE FAB WAS PERFORMED UNDER WA U73020, & THE 1" PIECE
OF PIPE REPLACEMENT AND INSTALLATION WAS PERFORMED UNDER WA U73019.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-12-88 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period SEP 25 1987 to MAY 31 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers II Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Entorsements

Date Aug. 22 1988

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

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

Date 4-21-88

Sheet 1 of _____

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

Unit 2

WA # V83380

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

3. Work Performed by Owner
Name
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Primary Containment Instrument Gasp 225 A, CL. II

5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 74 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>Sluicid Valve</u>	<u>Target Rock</u>	<u>75KK-7.01-24</u>	<u>N/A</u>	<u>SV-22649</u>	<u>1977</u>	<u>Repaired</u>	<u>Y</u>

7. Description of Work Grind out body-bonnet welds; reweld.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 150 psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FCRM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPORT 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 5.3 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. Waltham, MA

have inspected the components in this Owner's Report during the period MAR 7 1988 to JUN 19 1988, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogerson Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 24 1988

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

1. Owner Pennsylvania Power & Light Co.
Name

Two N. 9th Street, Allentown, PA 18101
Address

Date 5-6-88

Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station
Name

Berwick, PA 18603
Address

Unit 2

(see sheet #3)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 225A, CL-II (For items 1-3, 7-11, & 15-17), CL-III (For items 4-6 & 12-14)
(For items 4-6 & 12-14 ONLY!) ASME III 1980 Edition, Winter 80 Addenda, Primary Containment Instr. Co

5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of 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	Solenoid Valve	Target Rock	75KK-202-4	N/A	SV-22654B	1977	Repaired	YES
2	Main Disk	Crucible	N/A	N/A	SV-22654B	1977	Replaced	No
3	Main Disk	Target Rock	463	N/A	SV-22654B	1986	Replacement	No
4	Solenoid Valve	Target Rock	75KK-20-3	N/A	SV-2... 3	1981	Repaired	YES
5	Main Disk	AI Tech	N/A	N/A	SV-22643	1981	Replaced	No

7. Description of Work (see sheet #3)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure

Other Pressure (see below) psi Test Temp. Ambient °F

TP-225-001: Bottle Pressure = 2179 psig; Header Pressure = 171.0 psig
TP-225-002: Bottle Pressure = 2128 psig; Header Pressure = 161.2 psig

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 FORMS ATTACHED FOR REPLACEMENT DISCS

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair

We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp None

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

Signed [Signature] Date 8-8-88 1988
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Penna and employed by Arkwright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period MAR 7 1988 to JUN 17 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 11 1988

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

1. Owner PENNSYLVANIA POWER & LIGHT CO. Date 11-1-87
Name
TWO NORTH NINTH ST. ALLENTOWN, PA 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
PO BOX 467, BERWICK, PA 18603 WA # V73376
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp NA
Name Authorization No. NA
Address Expiration Date NA
4. Identification of System 2-64B, CL. 1, RECIRC WATER LOOPS & JET PUMPS
5. (a) Applicable Construction Code ASME III 19 71 Edition, W'72 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 71 - W'72.
6. Identification of Components Repaired or Replaced and Replacement Components

Location of 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" SCH 80 PIPE	BECHTEL	ISO PC# 1	NA	SP-DCA-250-1	1983	REPLACED	YES
1" SCH 80 PIPE	CHICAGO TUBE & IRON	HT # 469928	NA	TP 304L C/N: 36709	1984*	REPLACEMENT	YES
1" - 3/4" REDUCING INSERT	BECHTEL	ISO PC# 10	NA	SP-DCA-250-1	1983	REPLACED	YES
1" - 3/4" REDUCING INSERT	ALLOY STAINLESS PRODUCTS	NA	NA	TP 304L CAT# 211287	1984*	REPLACEMENT	YES

7. Description of Work PIPE SECTION & FITTING GROUND OUT & REPLACED.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F **EXEMPT**

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks MATERIAL INFORMATION ATTACHED.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 12.5, 19 87
Owner or Owner's Designee, Title SUPT. OF PLANT

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNA and employed by ARKWRIGHT MUTUAL INS. Co. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period APR 21 1987 to NOV 18 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC 16 1987

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

1. Owner Pennsylvania Power & Light Co. Date 11-1-87
Name
Two North Ninth St., Allentown, PA 18101
Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 167, Berwick, PA 18603
Address WA # V73376
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-64B, CL. 1, RECIRC. WATER LOOPS & JET PUMPS
5. (a) Applicable Construction Code ASME III 19 74 Edition, W74 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" ϕ VENT (GLOBE) VALVE	BORG WARNER	14961	NA	SP-DCA-250-1 PCB 13 243F025B	1976	REPLACED	YES
1" ϕ VENT (GLOBE) VALVE	BORG WARNER	63761	NA	CAT # 17142 243F025B	1981	REPLACEMENT	YES

7. Description of Work REMOVE AND REPLACE VALVE.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NFY-1 DATA REPORT ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 12-5 19 87
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 21 1987 to NOV 18 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 16 19 87

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

1. Owner Pennsylvania Power & Light Co. Date 11-26-87
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA # V73394; NCR 87-0167.
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-64B, CL. 1, RECIRC. WATER LOOPS & JET PUMPS
5. (a) Applicable Construction Code ASME III 19 71 Edition, W 72 Addenda, N-46, N-240, N-316 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3/4" # SCH 80S VENT PIPE TYPICAL	BECHTEL	NA	NA	SP-OCA-250-1 PC # 5	1980	REPAIRED	YES

7. Description of Work BUFF OUT GOUGES BETWEEN FIELD WELDS 4 AND 5; REFERENCE NCR 87-0167.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 12.14, 1987
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 23 1987 to APR 24 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 22, 1987

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

1. Owner Pennsylvania Power & Light Co. Date 5-20-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# VT3002, Code Repair # 87-264-004
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Duration Date N/A
4. Identification of System 2-64B, CL. I, Recirc Water Loops & Jet Pumps
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 71 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seal Cartridge Assembly	Byron Jackson	711-S-0803	N/A	Pump 2PA01A	1974	Replaced	YES
Seal Cartridge Assembly	Byron Jackson	713-W-5468	N/A	Pump 2PA01A	1981	Replacement	YES

7. Description of Work Replace Seal Cartridge Assembly on Pump 2PA01A (see Remarks)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure Stage 1: 1805 psig Test Temp. Ambient °F
Stage 2: 480 psig

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 FORM FOR SEAL CARTRIDGE ASSEMBLY ATTACHED. THE
Applicable Manufacturer's Data Reports to be attached
FOLLOWING CODE PARTS ARE ASSOCIATED WITH THE SEAL
CARTRIDGE ASSEMBLY: SEAL FLANGE, UNION PRESSURE
CONNECTION, THERMOWELL, & UNION DRAIN.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-8 19 88
 Owner or Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 25 1988 to MAR 25 1988, and state that to the best of my knowledge and belief, the owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7330 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-11 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 3-26-88

Sheet 1 of 2

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

Unit 2

(see sheet 2)

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 2-64B, CL. I, Recirc Water Loops & Jet Pumps

5. (a) Applicable Construction Code ASME III 19 71 Edition, winter 72 Addenda, ⁵⁻²⁷⁻⁸⁸ N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81 (1514-1 & 1525-1) 3A Vol
(1516-1 & 1525-1) 3A Vol

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1	Rx Recirc Pump Discharge Valve	Lunkenheimer	71-GE-49498-32	N/A	HV243 F031A	1975	Repaired	Yes
2	Rx Recirc Pump Suction Valve	Lunkenheimer	71-GE-49498-30	N/A	HV243 F023A	1975	Repaired	Yes

7. Description of Work Seal weld gland spacer to bonnet.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1006 psi Test Temp. 167 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) such 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

CERTIFICATE OF COMPLIANCE repair

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 7.18, 19 80

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period JUL 28 1987 to APR 21 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogan III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27, 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 4-5-88
Sheet 1 of 2

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

Unit 2
(see sheet 2)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System 2-G4B, CL. I, Recirc Water Loops & Jet Pumps

5. (a) Applicable Construction Code ASME III '9 71 Edition, Winter 71 Addenda, N/A Code Cas
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81 15A-1, 1525-1

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of 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	Rx Recirc Pump Discharge Valve	Lunkheimer	71-GE-49498-33	N/A	HV-2F031B	1975	Repaired	Yes
2	Vent Pipe for Valve HV-2F031B	Bechtel	PC No. 6	N/A	SP-DCA-251-2	1983	Repaired	No
3	Rx Recirc Pump Discharge Valve	Lunkheimer	71-GE-49498-31	N/A	HV-2F023B	1975	Repaired	Yes
4	Vent Pipe for Valve HV-2F023B	Bechtel	PC No. 5	N/A	SP-DCA-250-1	1983	Repaired	No

7. Description of Work ^(Items 1 & 3) Seal weld gland spacer to bonnet. ^(Items 2 & 4) Cut out vent pipe from HV-2F031B then reweld upon work complete

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1006 psi Test Temp. 167 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 7-18 19 88
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Ackwright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period JUL 28 1987 to MAY 28 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 27 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 6-10-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V83621, Code Repair # 88-264003
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-64 B, CL. I, Recirc Water Loops & Jet Pumps
5. (a) Applicable Construction Code ASME III, 1971 Edition, Summer 71 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seal Cartridge Assembly	Byron Jackson	711-S-0804	N/A	Pump 2P401B	1974	Replaced	Yes
Seal Cartridge Assembly	Byron Jackson	711-S-0801	N/A	Pump 2P401B	1974	Replacement	Yes

7. Description of Work Replace Seal Cartridge Assembly on Pump 2P401B (see Remarks.)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure Stage 1: 1035 psig Test Temp. Ambient °F
Stage 2: 500 psig

NGTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 FORM FOR PUMP 2P401B IS ON FILE IN
Applicable Manufacturer's Data Reports to be attached
N-5; 2-LAB, CL. I. THE FOLLOWING CODE PARTS ARE ASSOCIATED
WITH THE SEAL CARTRIDGE ASSEMBLY: SEAL FLANGE, UNION PRESSURE
CONNECTION, THERMOWELL, & UNION DRAIN.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8-8-88, 1988
Owner or Owner's Designer, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 19 1988 to JUN 13 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7000 PA2204 **NIBS IS**
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 11 1988

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

1. Owner Pennsylvania Power & Light Co. Date 11-24-87
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA # V63045
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-73A, CL. 2, PRIM. CONT. ATMOS. CONTROL
5. (a) Applicable Construction Code ASME 19 80 Edition, W'80 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" ISOLATION (SOLENOID) VALVE	TARGET ROCK	75KK-211-7	NA	SV25744A SP-HCB-224-4 PG # 12	1982	REPLACED	YES
1" ISOLATION (SOLENOID) VALVE	TARGET ROCK	75KK-211-32	NA	SV25744A	1983	REPLACEMENT	YES

7. Description of Work GRIND OUT WELDS, REPLACE VALVE, REWELD.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPY-1 DATA REPORT ATTACHED.

Applicable Manufacturer's Data Reports to be attached:

CERTIFICATE 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 RS, 1987
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JAN 17 1986 to FEB 5 1986, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 16 1987

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

1. Owner Pennsylvania Power & Light Co. Date 6-14-86
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V63796, Code Repair # 86-273-013
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-73A, CL II, Cont. Atmos Control
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Pipe	Installer: Bechtel	Pc. # 6	N/A	SP-HCB-209-3	1983	Repaired	No

7. Description of Work Perform build-up weld & grind to a flush finish.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 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 RAFA 8-29-88
NONE NCR 88-0654
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8.8 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 14 1986 to JUN 14 1986, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission No. NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 29 19 88

FORM NIS-2 OWNER'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 5-20-88

Two N. 9th Street, Allentown, PA 18101
Address

Sheet 1 of 7

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

(see sheet # 7)
Repair Organization P.O. No./Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th Street, Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System (668-70) 2-73A, CL. II, Primary Containment Atmos. Control

(For Items 59-64 ONLY!) ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case

(For Items 11-13 ONLY!) ASME III 1974 Edition, Winter 75 Addenda, N/A Code Case

5. (a) Applicable Construction Code ASME III 1980 Edition, Winter 80 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of 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" Solenoid Valve Target Rock	Target Rock	75XK-201-49	N/A	SV-25742A	1977	Replaced	YES
2	1" Solenoid Valve Target Rock	Target Rock	75XK-211-6	N/A	SV-25742A	1982	Replacement	YES
3	1" Solenoid Valve Target Rock	Target Rock	75XK-211-6	N/A	SV-25742A	1982	Repaired	YES
4	1" Solenoid Valve Target Rock	Target Rock	75XK-211-27	N/A	SV-25782B	1982	Repaired	YES
5	Main Disk	Carpenter	N/A	N/A	SV-25782B	1982	Replaced	No

7. Description of Work (see sheet # 7)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 36.3 psi Test Temp. 72 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-5-2 (Back)

9. Remarks N-2 FORM FOR REPLACEMENT MAIN DISCS ATTACHED.
Applicable Manufacturer's Data Reports to be attached
NPV-1 FORM FOR 75KK-211-6 IS ON FILE IN N-5 2-73A-IIC
THE ~~VALVE~~ ^{VALVE} WAS PREVIOUSLY REPLACED.)

CERTIFICATE OF COMPLIANCE (FD-817)

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 7-78 19 88
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arlowright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period SEP 25 1987 to JUN 18 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Factory Mutual System
Inspector's Signature NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date AUG 10 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name

Two N. 9th St., Allentown, PA 18101
Address

2. Plant Susquehanna Steam Electric Station
Name

Berwick, PA 18603
Address

3. Work Performed by Pennsylvania Power & Light Co.
Name

Two N. 9th St., Allentown, PA 18101
Address

Date 5-20-88

Sheet 2 of 7

Unit 2 (see sheet #7)



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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System (168-70) 2-73 A, CL II, Primary Containment Atmos Control

(For Items 59-64 ONLY!) ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case

(For Items 11-13 ONLY!) ASME III 1974 Edition, Winter 75 Addenda, N/A Code Case

5. (a) Applicable Construction Code ASME III 1980 Edition, Winter 80 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, winter 81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6	Main Disk	Target Rock	737	N/A	SV-25782B	1988	Replacement	No
7	1" Solenoid Valve	Target Rock	75KK-211-27	N/A	SV-25782B	1982	Repaired	YES
8	1" Solenoid Valve	Target Rock	75KK-211-27	N/A	SV-25780B	1982	Repaired	YES
9	Main Disk	Carpenter	N/A	N/A	SV-25780B	1982	Replaced	No
10	Main Disk	Target Rock	499	N/A	SV-25782B	1986	Replacement	No
11	1" Solenoid Valve	Target Rock	75KK-207-4	N/A	SV-25776B	1977	Repaired	YES
12	Main Disk	Crucible Inc.	N/A	N/A	SV-25776B	1977	Replaced	No
13	Main Disk	Target Rock	730	N/A	SV-25776B	1988	Replacement	No
14	Solenoid Valve	Target Rock	75KK-211-24	N/A	SV-25774B	1982	Repaired	YES
	Main Disk	Carpenter	N/A	N/A	SV-25774B	1982	Replaced	No
	Main Disk	Target Rock	598	N/A	SV-25774B	1986	Replacement	No
	Solenoid Valve	Target Rock	75KK-211-B	N/A	SV-25744B	1982	Repaired	YES
	Main Disk	Carpenter	N/A	N/A	SV-25744B	1982	Replaced	No
19	Main Disk	Target Rock	714	N/A	SV-25744B	1988	Replacement	No
20	1" Solenoid Valve	Target Rock	75KK-211-10	N/A	SV-25744B	1982	Repaired	YES

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

1. Owner Pennsylvania Power & Light Co.
Name

Date 5-20-88

Two N. 9th St., Allentown, PA 18101
Address

Sheet 3 of 7

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Barwick, PA 18603
Address

(see sheet # 7)

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

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th St., Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System (16B-70) Z-73A, CL. II, Primary Containment Atmos. Control
(For Items 59-64 ONLY!) ASME III 1974 Edition, winter 74 Addenda, N/A Code Case
5. (a) Applicable Construction Code ASME III 1974 Edition, winter 75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, winter 81 Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
21	Main Disk	Carpenter	N/A	N/A	SV-25745B	1982	Replaced	No
22	Main Disk	Target Rock	721	N/A	SV-25745B	1988	Replacement	No
23	1" Solenoid Valve	Target Rock	75KK-211-12	N/A	SV-25746B	1982	Repaired	Yes
24	Main Disk	Carpenter	N/A	N/A	SV-25746B	1982	Replaced	No
25	Main Disk	Target Rock	739	N/A	SV-25746B	1988	Replacement	No
26	1" Solenoid Valve	Target Rock	75KK-211-14	N/A	SV-25747B	1982	Repaired	Yes
27	Main Disk	Carpenter	N/A	N/A	SV-25747B	1982	Replaced	No
28	Main Disk	Target Rock	738	N/A	SV-25747B	1988	Replacement	No
29	1" Solenoid Valve	Target Rock	75KK-211-16	N/A	SV-25748B	1982	Repaired	Yes
30	Main Disk	Carpenter	N/A	N/A	SV-25748B	1982	Replaced	No
31	Main Disk	Target Rock	741	N/A	SV-25748B	1988	Replacement	No
32	1" Solenoid Valve	Target Rock	75KK-211-7	N/A	SV-25744A	1982	Repaired	Yes
33	Main Disk	Carpenter	N/A	N/A	SV-25744A	1982	Replaced	No
34	Main Disk	Target Rock	708	N/A	SV-25744A	1988	Replacement	No
35	1" Solenoid Valve	Target Rock	75KK-211-9	N/A	SV-25745A	1982	Repaired	Yes

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

1. Owner Pennsylvania Power & Light Co.
Name

Date 5-20-88

Two N. 9th St., Allentown, PA 18101
Address

Sheet 4 of 7

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

(see sheet # 7)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th St., Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System (168-D) 2-73A CL. II, Primary Containment Atmos. Control

(For Items 59-64 ONLY!) ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case
(For Items 11-13 ONLY!) ASME II 1974 Edition, Winter 75 Addenda, N/A Code Case

5. (a) Applicable Construction Code ASME III 1980 Edition, Winter 80 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, winter 81

6. Identification of Components Repaired or Replaced and Replacement Comments

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
36	Main Disk	Carpenter	N/A	N/A	SV-25745A	1982	Replaced	No
37	Main Disk	Target Rock	716	N/A	SV-25745A	1988	Replacement	No
38	1" Solenoid Valve	Target Rock	75KK-211-13	N/A	SV-25747A	1982	Repaired	Yes
39	Main Disk	Carpenter	N/A	N/A	SV-25747A	1982	Replaced	No
40	Main Disk	Target Rock	717	N/A	SV-25747A	1988	Replacement	No
41	1" Solenoid Valve	Target Rock	75KK-211-15	N/A	SV-25748A	1982	Repaired	Yes
42	Main Disk	Carpenter	N/A	N/A	SV-25748A	1982	Replaced	No
43	Main Disk	Target Rock	744	N/A	SV-25748A	1988	Replacement	No
44	1" Solenoid Valve	Target Rock	75KK-211-19	N/A	SV-25740A	1982	Repaired	Yes
45	Main Disk	Carpenter	N/A	N/A	SV-25740A	1982	Replaced	No
46	Main Disk	Target Rock	747	N/A	SV-25740A	1988	Replacement	No
47	1" Solenoid Valve	Target Rock	75KK-211-20	N/A	SV-25750A	1982	Repaired	Yes
48	Main Disk	Carpenter	N/A	N/A	SV-25750A	1982	Replaced	No
49	Main Disk	Target Rock	728	N/A	SV-25750A	1988	Replacement	No
50	1" Solenoid Valve	Target Rock	75KK-211-21	N/A	SV-25752A	1982	Repaired	Yes

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

1. Owner Pennsylvania Power & Light Co.
Name

Two N. 9th St., Allentown, PA 18101
Address

2. Plant Susquehanna Steam Electric Station
Name

Berwick, PA 18603
Address

3. Work Performed by Pennsylvania Power & Light Co.
Name

Two N. 9th St., Allentown, PA 18101
Address

Date 5-20-88

Sheet 5 of 7

Unit 2 (see sheet #7)

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System (8-70) 2-73A, CL. II, Primary Containment Atmos. Control

(For Items 59-64 ONLY!) ASME III 1974 Edition, winter 74, Addenda N/A Code Case
(For Items 11-13 ONLY!) ASME III 1974 Edition, winter 75, Addenda N/A Code Case

5. (a) Applicable Construction Code ASME III 1980 Edition, winter 80, Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter 81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
51	Main Disk	Carpenter	N/A	N/A	SV-25752A	1982	Replaced	No
52	Main Disk	Target Rock	727	N/A	SV-25752A	1988	Replacement	No
53	1" Solenoid Valve	Target Rock	75XK-211-26	N/A	SV-25780A	1982	Repaired	Yes
54	Main Disk	Carpenter	N/A	N/A	SV-25780A	1982	Replaced	No
55	Main Disk	Target Rock	746	N/A	SV-25780A	1988	Replacement	No
56	1" Solenoid Valve	Target Rock	75XK-211-28	N/A	SV-25782A	1982	Repaired	Yes
57	Main Disk	Carpenter	N/A	N/A	SV-25782A	1982	Replaced	No
58	Main Disk	Target Rock	735	N/A	SV-25782A	1988	Replacement	No
59	1" Solenoid Valve	Target Rock	75XK-201-33	N/A	SV-25740B	1977	Repaired	Yes
60	Main Disk	Crucible, Inc.	N/A	N/A	SV-25740B	1977	Replaced	No
61	Main Disk	Target Rock	726	N/A	SV-25740B	1988	Replacement	No
62	1" Solenoid Valve	Target Rock	75XK-201-36	N/A	SV-25750B	1977	Repaired	Yes
63	Main Disk	Crucible, Inc.	N/A	N/A	SV-25750B	1977	Replaced	No
64	Main Disk	Target Rock	715	N/A	SV-25750B	1988	Replacement	No
65	1" Solenoid Valve	Target Rock	75XK-211-22	N/A	SV-25752B	1982	Repaired	Yes

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5-20-88

Sheet 7 of 7

2. Plant Susquehanna Steam Electric Station
Name
Berwick, Pa. 18603
Address

Unit 2

(see below)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System (68-70) 2-73A, CL. II, Primary Containment Atmos. Control

(For Items 59-64 ONLY!) ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case
(For Items 11-13 ONLY!) ASME III 1974 Edition, Winter 75 Addenda, N/A Code Case

5. (a) Applicable Construction Code ASME III 1980 Edition, Winter 80 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
1-3	V73783	88-273-001	cut out old valve & weld in replacement.
4	V74106	88-273-003	Grind out tacks, rework, & retack weld
5-6	V74106	C88-273-056	Replace main disk
7	V74106	C88-273-075	Remove indications by mechanical means
8	V74107	88-273-005	Grind out tacks, rework, & retack weld.
9-10	V74107	C88-273-059	Replace main disk.
11-13	V74108	C88-273-132	Grind out tacks, replace the main disk, & retack
14	V74109	88-273-002	Grind out tacks, rework, & retack weld.
15-16	V74109	C88-273-066	Replace main disk.
17-31	V83316	88-273-009	Grind out tacks, replace all main disks, & retack
32-43	V83317	88-273-010	Grind out tacks, replace all main disks & retack
4-58	V83502	88-273-008	Grind out tacks, replace all main disks & retack
59-67	V83503	88-273-007	Grind out tacks, replace all main disks & retack
68-70	V74111	C88-273-133	Grind out tacks, replace main disk, & retack.
71	V73733	87-273-020	Grind out tacks, rework, & retack weld.
72-73	V73733	C88-273-094	Replace main disk.

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

1. Owner Pennsylvania Power & Light Co.
Name

Date 6-3-88

Two N. 9th Street, Allentown, PA 18101
Address

Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

(see sheet 3)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th Street, Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System 2-B3A, CL I, Main Steam

5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1	Disc	Nova Howmet	AG	N/A	valve s/n: A0551 2F025F	1977	Replaced	NO
1	Disc	Nova Howmet	AG	N/A	valve s/n: 5389 2F025F	1976	Replacement	NO
1	Backseat Bushing	Republic Steel	YW-684	N/A	valve s/n: A0551 2F025F	1977	Replaced	NO
1	Backseat Bushing	Republic Steel	YW-684	N/A	valve s/n: 5389 2F025F	1976	Replacement	NO
2	Disc	Nova Howmet	AG	N/A	valve s/n: 5389 2F025F	1976	Replaced	NO

7. Description of Work (see sheet 3)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure 1000 psig Test Temp. 167 °F ~~Exempt~~ RAFH 8-3-88

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WA V73368 unintentionally replaced Class I parts with Class II parts. This was identified by NCR 88-04064, has since been corrected under WA V83844.

CERTIFICATE OF COMPLIANCE ~~repair~~

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 8/8 19 88
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period APR 23 1987 to JUL 1 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Factor Mutual System

William R. Rogers Commissioner NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5-4-88
Sheet 1 of 3

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

Unit 2
(see sheet 3)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System 7B3A, CL. II, Main Steam

5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of 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" Main Steam Drip Leg Drain Valve	Yarway	A1076	N/A	HV-20112A1	1977	Replaced	YES
2	1" Main Steam Drip Leg Drain Valve	Yarway	BB108	N/A	HV-20112A1	1983	Replacement	YES
3	1" Main Steam Drip Leg Drain Valve	Yarway	A1079	N/A	HV-20112C1	1977	Replaced	YES
4	1" Main Steam Drip Leg Drain Valve	Yarway	BB119	N/A	HV-20112C1	1983	Replacement	YES
5	1" Main Steam Drip Leg Drain Valve	Yarway	A1081	N/A	HV-2011201	1977	Replaced	YES

7. Description of Work (see sheet 3)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure EXEMPT RAPH 8.3-88
Other Pressure 920 psig Test Temp. 520 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks The replacement 71 Edition, Winter 73 Addenda
Applicable Manufacturer's Data Reports to be attached
was reconciled per NCR 88-0434 for all
three valves (HV-20112 A1, C1, & D1).

CERTIFICATE OF COMPLIANCE REPAIR &

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 8.8 19 88
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Persia and employed by Arkwright Mutual Insurance Company of Waltham, Mass have inspected the components described in this Owner's Report during the period MAR 9 1988 to JUL 1 8 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Riguzzi Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 5-4-88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 WA# V73050, Code Repair # 88-283-001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 2-83A, Cl. II, Main Steam
5. (a) Applicable Construction Code ASME III 1974 Edition Winter 74 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Drip Leg Drain Valve	Yarway	A1082	N/A	HV-20112B1	1977	Replaced	YES
Drip Leg Drain Valve	Yarway	B8213	N/A	HV-20112B1	1983	Replacement	YES
Drip Leg Drain Valve	Yarway	B8213	N/A	HV-20112B1	1983	Repaired	YES

7. Description of Work Replace HV-20112B1 with new valve; tank weld body-bonnet.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure ~~Exempt~~ SAFH
 Other Pressure 920 psig Test Temp. 520 °F 8-3-88

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 FORM ATTACHED. THE REPLACEMENT TIED,
Applicable Manufacturer's Data Reports to be attached
W 73 ADD WAS RECONCILED PER NCR 88-0434.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 8/8 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JAN 18 1988 to JUN 18 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguett Commissions NB7990 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 22 1988

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

1. Owner Pennsylvania Power & Light Co. Date 5-4-88
Name

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

2. Plant Susquehanna Steam Electric Station Unit 2
Name

P.O. Box 467, Berwick, PA 18603 WA# V73059, NCR 88-0434, 87-283-003 Code Repair #
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A

Address Expiration Date N/A

4. Identification of System 2-83A, CL II, Mainsteam

5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Drip Leg Root Valve	Yarway	A0506	N/A	3RV-LSH-20112A	1977	Replaced	Yes
Drip Leg Root Valve	Yarway	B8139	N/A	3RV-LSH-20112A	1983	Replacement	Yes

7. Description of Work Grind out & replace valve.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure ~~Exempt~~ RAFH
Other Pressure 92 psig Test Temp. 520 °F 8-3-88

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 FORM ATTACHED. (NCR 88-0434 RECONCILED
Applicable Manufacturer's Data Reports to be attached
THE REPLACEMENT 71 ED, W/ 73 ADD VALVE)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
 Certificate of Authorization No. N/A Expiration Date N/A
 Signed [Signature] Date 8/8 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 3 1988 to JUN 18 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III NB7980 PA2204 NIBS IS
Inspector's Signature Commissions National Board, State, Province, and Endorsements
 Date Aug. 22 1988

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

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

Date 12-15-86
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 46, Berwick, PA 18603
Address

Unit 2
WA# V64857, Code Repair # 86-283-012
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System 2-B3A, CL-II, Main Steam

5. (a) Applicable Construction Code ASME III, 1974 Edition, Winter 74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Disc	Nova Howmet	A8 & A9	N/A	3RV-LSH-20108	1977	Replaced	No
Disc	Nova Howmet	A6	N/A	3RV-LSH-20108	1976	Replacement	No
Backseat Bushing	Al Tech Steel	YW 793	N/A	3RV-LSH-20108	1977	Replaced	No
Backseat Bushing	Republic Steel	YW 684	N/A	3RV-LSH-20108	1976	Replacement	No

7. Description of Work Replace disc & backseat bushing on 3RV-LSH-20108

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ^{RAFV 8-24-88} ~~NONE~~ Replacement parts come from Yarway valve S/N 5429.
Applicable Manufacturer's Data Reports to be attached
 NPV-1 Form attached for Yarway valve S/N 5429

CERTIFICATE 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 3-14 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Pennsylvania and employed by Arkwright Mutual Insurance Co. of Waltham, MA have inspected the components described in this Owner's Report during the period DEC 15 1986 to DEC 18 1986, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William E. Pognante Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 29 1988

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

1. Owner Pennsylvania Power & Light Co. Date 5-4-88
Name

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

2. Plant Susquehanna Steam Electric Station Unit 2
Name

P.O. Box 467, Berwick, PA 18603 WA# V74002, Code Repair # Y 88-283-002 #008
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A

Address Expiration Date N/A

4. Identification of System 2-83A, CL II, Main Steam

5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Globe Valve	YARWAY	A1071	N/A	HV-20108A	1977	Replaced	YES
1" Globe Valve	YARWAY	5959	N/A	HV-20108A	1976	Replacement	YES
1" Globe Valve	YARWAY	5959	N/A	HV-20108A	1976	Repaired	YES

7. Description of Work Grind out valve HV-20108A, reweld in new valve, & tack-weld Yoke to body.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 920 psig Test Temp. -None- °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 FORM FOR REPLACEMENT VALVE ATTACHED.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 7-13, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 8 1988 to MAY 31 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogue III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27, 1988

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 4-22-87
Sheet 1 of 3

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

Unit 2
(see sheet # 3)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System Z-83 A, CL. II, Main Steam

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1	Level Switch	Mercoid Corp.	Model No. E-5853	N/A	LSHL-20112C	1982	Replaced	No
1	Level Switch	Mercoid Corp.	Model No. E-5853	N/A	LSHH-20112C	1985	Replacement	No
1	1" Pipe	Bechtel	N/A	N/A	PC # 77 SP-DBB-204-2	1983	Replaced	Yes No
1	1" Pipe	Quanex Corp.	HT. # IM6673	N/A	PC # 77 SP-DBB-204-2	1986	Replacement	Yes No
1	1" 90° Elbow	Bechtel	N/A	N/A	PC # 36 SP-DBB-204-2	1983	Replaced	Yes No

7. Description of Work Remove defective level switch. Replace affected pipe and elbow.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 920 psi Test Temp. -None- °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks The level switch is a non-code replacement
Applicable Manufacturer's Data Reports to be attached
put on this form to document the ASME
Section III welding done on the switch.
(No replacement documentation required for the level switch.)

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed [Signature] [Signature] Date 7-18 19 88
Owner or Owner's Designee, etc.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period DEC 12 1986 to APR 23 1987 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William E. Pogorell Factory Mutual System
Inspector's Signature Commissions NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date July 20 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5-20-88

Sheet 1 of 3

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

Unit 2

(see sheet 3)

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 2-83 E, CL III, Auto Pressure Blowdown

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Item No.	Name of 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	Pin Assembly	Installer: Bechtel	Item #2	N/A	SP-HCC-238-H5004	1983	Replaced	No
1	Pin Assembly	ITT Grinnell	Item #2	N/A	SP-HCC-238-H5004	1984	Replacement	No
2	Hanger bolts	Installer: Bechtel	Item #2	N/A	SP-HCC-238-H5004	1983	Replaced	No
2	Hanger bolts	Installer: Bechtel	from hanger SP-DCA-238-4209 Item #4	N/A	SP-HCC-238-H5004	1983	Replacement	No
2	Hanger Nuts	Installer: Bechtel	Item #2	N/A	SP-HCC-238-H5004	1983	Replaced	No

7. Description of Work (see sheet 3)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure None Required
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NONE
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair & replacement

We certify that the statements made in the report are true and that the repair replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp None

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

Signed [Signature] [Signature] Date 7-18 19 88
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Walcham, Mass have inspected the components described in this Owner's Report during the period MAR 29 1988 to MAY 20 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III NB7-80 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 27 19 88

INSTALLATION
ENGINEERING
GROUP

NIS-2 FORMS

WORK ABSTRACT

Installation Engineering is responsible for preparing Construction Work Orders (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.

INSTALLATION ENGINEERING GROUP

Design Change Packages for ASME Section XI (Class 1, 2 and 3) items, installed since the completion of the First Refueling Outage through completion of the Second Refueling Outage (except as noted) are summarized below:

DESIGN CHANGE PACKAGE NUMBER -----	SYSTEM/CLASS -----	DESCRIPTION -----
87-9159A	225A-III	Containment Instrument Gas
& 87-9230		Alternate Charging Position
87-9210	234D-III	Flex Hose Change-Outs
87-9210	234E-III	Flex Hose Change-Outs
87-9210	234F-III	Flex Hose Change-Outs
87-9210	234G-III	Flex Hose Change-Outs
85-9016	234U-III	Remove FSL-27203 A & B
86-9053	234U-III	Relocate Valves 24560 A & B
86-9039	245A-II	Replace Valve HV-244F104 And Delete Supports
84-9013	249A-II	Install Gauges PI-25194A-D
86-7034	249A-II	HPCI/RHR Isolation
86-7034	249B-II	HPCI/RHR Isolation
NCR 88-389	251A-I	DLA-207-H1 & H2 Repair
86-7034	252B-II	HPCI/RHR Isolation
87-3013A	261B-I	Snubber Reduction
88-3030	261B-I	Replace HV-244F004
86-9039	261B-III	Modify Supports
87-9002	261B-III	Replace RWCU HX Diaphragm
88-3030	261B-III	Snubber Reduction
87-3013A	262A-I	Snubber Reduction
85-8026	264B-I	SP-DCA-250, -251 Cut & Cap
85-9024	264B-I	DCA-242-H3 Modification
**	264C	Retube 2E126B Lube Oil Cooler
NCR 88-109 & NCR 88-215	283A-II	MSL-200-H5 & H6 Repair

** Repair of a Section VIII Component within an ASME Section III System.

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

1. Owner Pennsylvania Power & Light Co. Date August 16, 1988
Name
Two North Ninth St., Allentown, PA 18101 Address
Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 Address
PMR 87-9159A, PMR 87-9230, CWO C88266,
C88267, C88186
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System Containment Instrument Gas System 225A, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
Construction Code ASME III 1974 Edition, Winter 1974 Addenda for Borg Warner
6. Identification of Components Repaired or Replaced and Replacement Components Globe Valve

Name of 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	Bechtel	N/A	N/A	SP-HCC-239-1	1983	Replaced*	Yes
Small Pipe Subassembly	PP&L	N/A	N/A	SP-HCC-239-1	1988	Replacement	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-HCC-240-1	1983	Replaced*	Yes
Small Pipe Subassembly	PP&L	N/A	N/A	SP-HCC-240-1	1988	Replacement	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-CCC-202-4	1983	Replaced*	Yes

7. Description of Work Remove 150# flanges and pneumatic test. Replace flanges post test add branch isolation valve for alternate charging connection.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure *partial
Other Pressure 3125 psi; Test Temp. ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 MAR 9 1988 to MAY 9 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Regent Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 25 19 88

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

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18403
Address

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

Date August 16, 1988

Sheet 2 of 2

Unit 2
 PMR 87-9159A, PMR 87-9230, CWO C88266,
 C88267, C88186
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Containment Instrument Gas, System 225A, Class 3

5. (a) Applicable Construction Code ASME III is 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 80, Winter '81
Construction Code ASME III 1974 Edition, Winter 1974 Addenda for Borg Warner
Globe Valve

6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Small Pipe Subassembly	PP&L	N/A	N/A	SP-CCC-202-4	1988	Replacement	No
Globe Valve	Borg Warner	871W0706	N/A	2-26-175	1988	Replacement*	Yes

*Added Valve

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

1. Owner Pennsylvania Power & Light Co. Date June 24, 1988
Name
Two North Ninth St., Allentown, PA 18101 Address Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 Address PMR 86-9039, CWO C78173
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Water Cleanup, System 261B, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" Pipe Spool	Bechtel	N/A	N/A	DBC-202-1	1983	Replaced*	Yes
4" Pipe Spool	PP&L	N/A	N/A	DBC-202-1	1988	Replacement	No
Pipe Support	Bechtel	N/A	N/A	DBC-202-H56	1983	Replaced	No
Pipe Support	PP&L	N/A	N/A	DBC-202-H56	1988	Replacement	No
Pipe Support	Bechtel	N/A	N/A	DBC-202-H51	1983	Replaced	No

Note

7. Description of Work Connection weld to replacement 4"-900# Globe Valve HV244F104 (Sys. 245A Cl. 2) and Modification/Deletion of existing supports as per DCP 86-903
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure *Partial
Other Pressure 1820 psi Test Temp. 67 °F (TP-261-013)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 DEC 16 1987 to APR 28 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 25 19 88

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

Date June 24, 1988
 Sheet 2 of 2

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

Unit 2
 PMR 86-9039, CWO C78173
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light 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 Cleanup, System 261B, Class 3

5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Replaced or Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Mechanical Shock	Pacific Scientific	20409	N/A	DBC-202-H51	1982	Replaced	No	Note 1
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FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date August 15, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 87-9002, CWO C78227, C78229, C78231
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Water Cleanup, System 261B, Class 1
5. (a) Applicable Construction Code ASME III 19 68 Edition, S '70 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RWCU HX	GE	223400	52975	2E207A	1972	Repaired	Yes
RWCU HX	GE	223401	52975	2E207B	1972	Repaired	Yes
RWCU HX	GE	223402	52975	2E207C	1972	Repaired	Yes

7. Description of Work Replace RWCU HX diaphragm seal plates by welding and replace channel cover studs and nuts.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1006 2400 2400 Test Temp 167 2400 2400

NOTE Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None ^{AS} ~~AS~~ The RWCU HX's contain new bolting material as follows:
Applicable Manufacturer's Data Reports to be attached
1 1/2"-8 x 12 1/2" Stud, SA193 GR B7, HT# DLH-RIR 88-274, and HT# PK83-RIR 88-274;
1 1/2"-8 Hex Nut, SA 194 GR B7, HT# HDD-7-RIR 87-581.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 Walton, Massachusetts have inspected the components described in this Owner's Report during the period DEC 8 1987 to JUN 11 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers II Inspector's Signature Commissions NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Aug. 29 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603
Address PMR 88-3030, WA-V83780, CWO C88417,
 C88418
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Water Cleanup, System 261B, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Required or Replaced and Replacement Components

Name of 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	DBC-201-1	1983	Replaced	Yes	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	20825	N/A	DBC-201-H9	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	19462	N/A	DBC-201-H10	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	19827	N/A	DBC-201-H10	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	19834	N/A	DBC-201-H11	1983	Replaced	No	Note

7. Description of Work Connection of Class 3 piping to Class 1 valve and snubber reduction

8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1800 ps. Test Temp. 77 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12-82)

This Form (600030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

NOTE 1 - Portion deleted
 NOTE 2 - Component removed

FORM NIS-2 (back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 MAR 23 1988 to JUN 9 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions 117080 P10004 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 25 19 88

1. Owner Pennsylvania Power & Light Co.

Date August 1, 1988

Two North Ninth St., Allentown, PA 18101

Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station

Unit II

P.O. Box 467, Berwick, PA 18603

PMR 88-3030, WA-V83780, CWO C88417, C88418

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

3. Work Performed by Pennsylvania Power & Light Co.

Type Code Symbol Stamp None

Two North Ninth St., Allentown, PA 18101

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Water Cleanup, System 261B, Class 3

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Mech. Shock & Pacific Assoc. Com. Scientific 19819 N/A DBC-201-H11 1983 Replaced* No

mech. Shock & Pacific Assoc. Com. Scientific 18584 N/A DBC-201-H12 1983 Replaced* No

* Component Deleted

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

1. Owner Pennsylvania Power & Light Co. Date August 15, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 PMR 87-3013A, CWO C78305, C78304
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Vessel & Auxiliaries, System 262A, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N-411 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
Mech. Shock & Assoc. Com.	Pacific Scientific	02371	N/A	SP-DCA-206-H2	1983	Replaced	No	Note 1
Mech. Shock & Assoc. Com.	Pacific Scientific	03867	N/A	SP-DCA-206-H4	1983	Replaced	No	Note 1
Mech. Shock & Assoc. Com.	Pacific Scientific	04642	N/A	DCA-203-H2	1983	Replaced	No	Note 1
Mech. Shock & Assoc. Com.	Pacific Scientific	03096	N/A	DCA-203-H6	1983	Replaced	No	Note 1
Mech. Shock & Assoc. Com.	Pacific Scientific	03516	N/A	DCA-203H5	1983	Replaced	No	Note 1

7. Description of Work Snubber Reduction
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X None
 Other Pressure _____ ps: Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12-82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

NOTE 1 - Component Deleted

FORM NIS 2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee The Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 DEC 16 1987 to AUG 24 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 25 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required 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
 P.O. 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 2, 1988
 Sheet 1 of 2
 Unit II
 PMR 85-8026, CWO C88314, C88315, C88316,
 C88317
 Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Recirculation Water Loops and Jet Pumps, System 261B, Class 1
 Code Case N/A

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

Identification of Components Repaired or Replaced and Replacement Components

Name of 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	Bechtel	N/A	N/A	SP-DCA-250-1	1983	Replaced*	Yes
Small Pipe Subassembly	PP&L	N/A	N/A	SP-DCA-250-1	1988	Replacement	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-DCA-250-2	1983	Replaced*	Yes
Small Pipe Subassembly	PP&L	N/A	N/A	SP-DCA-250-2	1988	Replacement	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-DCA-251-1	1983	Replaced*	Yes

7. Description of Work Cut & Cap Stem leak-off piping, deleting valves 2F024A6B and 2F033A6B
 *Partial

8. Tests Conducted
 Hydrostatic
 Pneumatic
 Other
 Pressure _____ psi
 Test Temp _____ °F
 None

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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 None
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp None

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

Signed [Signature] Date August 24, 19 88
 Owner or Owner's Designee Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 MAR 26 1988 to APR 8 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 25 19 88

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

Date May 2, 1988
 Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 19403
Address

Unit II
 PMR 85-8026, CWO C88314, C88315, C88316, C88317
 Repair Organization P.O. No. Job No. etc.

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

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

Identification of System Recirculation Water Loops and Jet Pumps, System 261B, Class 1

(a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamp (Yes or No)
Small Pipe Subassembly	PP&L	N/A	N/A	SP-DCA-251-1	1988	Replacement	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-DCA-251-2	1983	Replaced*	Yes
Small Pipe Subassembly	PP&L	N/A	N/A	SP-DCA-251-2	1988	Replacement	No
Small Pipe Valve	Borg Warner	15329	N/A	2F024A	1976	Replaced	Yes Note 1
Small Pipe Valve	Borg Warner	15407	N/A	2F024B	1976	Replaced	Yes Note 1
Small Pipe Valve	Borg Warner	15405	N/A	2F033A	1976	Replaced	Yes Note 1
Small Pipe Valve	Borg Warner	12313	N/A	2F033B	1976	Replaced	Yes Note 1

NOTE 1 - Component Removed

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

1. Owner Pennsylvania Power & Light Co. Date May 2, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 PMR 85-9024, CWO C78122, C78123
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Recirculation Water Pumps and Jet Pumps, System 264B, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DCA-242-H3	1983	Replaced*	No
Large Pipe Support	PP&L	N/A	N/A	DCA-242-H3	1986	Replacement	No

7. Description of Work Modify pipe support to enable bolted removal *Partial
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X None
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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. report or replacement

Type Code Symbol Stamp None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designer, or Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 NOV 17 1987 to MAR 19 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pigeon Inspector's Signature Commissions NB7900 1A2204 NIBS IS
National Board, State, Province, and Endorsements

Date Aug. 25 19 88

FORM R-1, REPORT OF WELDED REPAIR OR ALTERATION
As Required by the Provisions of The National Board Inspection Code

264C
(Section VIII)
3

1. Work done by Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18101 N/A
(Serial No.)

Owner Pennsylvania Power & Light Co.
(Name and address of owner)

3. Location of Installation Susquehanna Steam Electric Station, P.O. Box 467, Berwick, PA 18603
(Name and address)

4. Unit Identification Heat Exchanger Name of Manufacturer ITT Standard
(Boiler/Pressure vessel)

5. Identifying Nos. B7M-9b652-01-1 38034 480736 2E126B 1973
(Mfg. Serial No.) (National Board No.) (UNSECTION) (Other) (Year Built)

6. Description of Work: Replacement of existing brass tube bundle with new stainless steel tube bundle. Work done in accordance with PMR 87-70.2 and CWO C88193.
(Use back sheets & set of sketch if necessary)

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report: stainless steel tube bundle
 Pressure Test, if Applied 225 psi

Name of plant, item number, mfg's name, and identify no stamp

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design ASME Section VIII material, construction, and workmanship on this repair conform to The National Board Inspection Code.
 Date 8/24/88 Signed Penna. Power & Light Co. by [Signature] Superintendent of Plant - Susq. SES
 Our Certificate of Authorization No. N/A to use the N/A Symbol expires N/A 19

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors or the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. of Walsham, MA have inspected the work described in this Data Report on MARCH 2 1988 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 inspector nor his employer makes any warranty, expressed or implied, concerning the work 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, except such liability as may be provided in a policy of insurance which the inspector's insurance company may issue upon said object and then only in accordance with the terms of said policy.
 Date Aug. 29, 1988 William R. Rogers Commissions EB7990 PA2204
 Inspector Factory Mutual System
Natl. Board of Boiler and Pressure Vessel Inspectors

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

1. Manufactured and certified by ITT STANDARD 175 Standard Parkway, Buffalo NY 14227
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. ALLENTOWN, PA 18101
3. Location of installation SAME AS ABOVE
4. Type HORIZ. - H.E. 87M9865201-1 REV. D 1088
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE 1986
The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1

A-1986

6. (a) Drawing prepared by ITT STANDARD (b) Description of part inspected BUNDLE
7. Postweld heat treatment: Temp. _____ °F Time _____

8. Shell: NONE
9. Seams: NONE
10. Heads: (a) Matl. NONE (b) Matl. _____

Location Top Bottom (Inch)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Engelst Radius	Coronal Angle	Non-spherical Radius	Flare Diameter	Shell to Pressure Contour or Center
(a)									
(b)									

11. Type of Jacket NONE Proof Test NONE
12. Jacket Closure NONE if bar, give dimensions _____
13. MAWP _____ psi at max. temp. _____ °F min. temp. (when less than -20° F) _____
Hydro., pneu., or comb. test press. _____ psi.

14. Tubesheets: IP 316 SA240 25,500 1,375 NONE BOLTED
IP 316 SA240 22,969 2,000 NONE PACKED
15. Tubes: IP 316 SA249 .750 .044 MIN. WALL THICK 476 STRAIGHT

16. Shell: NONE
17. Seams: NONE
18. Heads: (a) Matl. NONE (b) Matl. _____

Location Top Bottom (Inch)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Engelst Radius	Coronal Angle	Non-spherical Radius	Flare Diameter	Shell to Pressure Contour or Center
(a)									
(b)									

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

1. Owner Pennsylvania Power & Light Co. Date August 12, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address NCR 88-109 & 88-215, WA-V83634
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Main Steam, System 2B3A, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	MSL-200-H5	1983	Repaired	No
Large Pipe Support	Bechtel	N/A	N/A	MSL-200-H6	1983	Repaired	No
Large Pipe Support	Bechtel	N/A	N/A	MSL-200-H5	1983	Replaced*	No
Large Pipe Support	PP&L	N/A	N/A	MSL-200-H5	1988	Replacement	No
Large Pipe Support	Bechtel	N/A	N/A	MSL-200-H6	1983	Replaced*	No

7. Description of Work Repaired welds and replaced structural pipe attachment assemblies
*Partial
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure None
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Stress Calc ABR-2600-1, Rev. 0
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair

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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 MAY 2 1988 to JUN 17 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Inspector's Signature Commissions NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Aug. 25 19 88

Name Pennsylvania Power & Light Co.
 Address North Ninth St., Allentown, PA 18101
Susquehanna Steam Electric Station
 Name
 Address P.O. Box 467, Berwick, PA 18603
 Name Pennsylvania Power & Light Co.
 Address 40 North Ninth St., Allentown, PA 18101

Date August 12, 88
 Sheet 2 of 2
 Unit 2
 Repair Organization P.O. No., Job No., etc. NCR 88-109 & 88-215, WA-V83634
 Type Code Symbol Stamp None
 Authorization No. N/A
 Expiration Date N/A

Identification of System Main Steam, System 283A, Class 2
 Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda Code Case N/A
 Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81

Identification of Components Required or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Large Pipe Support	PP&L	N/A	N/A	MSL-200-H6	1988	Replace-ment	No

Mfr. Serial No. _____

8. Remarks _____

9. Design conditions 3600 psi 100 °F or valve pressure class 1500 LB. (1)

10. Cold working pressure 3600 psi at 100°F

11. Hydrostatic test 5400 psi Temp. 60 (MIN.) °F Disk differential test pressure 3600 psi

CERTIFICATION OF DESIGN

Design Specification certified by RAJAN V. PAREKH Prof. Eng. state PENN. Reg. No. 29862-E
 Design Report certified by D. A. WURANJIAN Prof. Eng. state CALIF. Reg. No. M19847

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. N-1130 Expires 16 JUNE 1990

Date 09 SEPT. 87 Name BOSS-WARNER INDUSTRIAL PRODUCTS INC. Signed [Signature]
 N Certificate Holder (representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by MARKERLIGHT MUTUAL INS. CO of NORWOOD, MASS. have inspected the pump, or valve, described in this Data Report on 8 September 1987, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III. FACTORY MUTUAL SYSTEM

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

Date 9-8-1987

[Signature] Commissions Calif. 1408 PA-WC-2457
 (Inspector) (Nat'l Bd., and endorsements State, Prov. and No.)

87-1261
 RECORD/PUMP/VALVE
 1
 352

(1) For manually operated valves only.

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

1. Owner Pennsylvania Power & Light Co. Date December 21, 1987
Name
Two North Ninth St., Allentown, PA 18101 Address
Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 Address
PMR 87-9210, CWO C78164, C78268,
C78166, C78167
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Building Heating & Ventilation, System 234D, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-221-2	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-222-2	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-225-2	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-226-1	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-221-1	1987	Replacement	No

7. Description of Work Replaced Non-ASME ESW flex hoses (4 per unit) and flange stud bolts at Core Spray Pump Room Unit Coolers 2V-211A, -211B, -211C, -211D
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure * psi; Test Temp. * °F
* See Remarks

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Test Conditions: C78164; 127 psi @ 59°F, C78268; 150 psi @ 50°F,
C78166; 127 psi @ 59°F, C78167; 146 psi @ 52°F
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 NOV 20 1987 to DEC 16 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Inspector's Signature Commissions 225000 PA2204 NIBS IS
FACTORY MUTUAL CYCTEAM National Board, State, Province, and Endorsements

Date Aug 25 19 88

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

1. Owner Pennsylvania Power & Light Co. Date December 18, 1987
Name
Two North Ninth St., Allentown, PA 18101 Address
Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 Address
PMR 87-9210, CWO C78158, C78266
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Building Heating & Ventilation-System 234E, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flex Hose	Anamet	N/A	N/A	SP-HRC-219-5	1987	Replacement	No
Flex Hose	Anamet	N/A	N/A	SP-HRC-220-5	1987	Replacement	No
Flex Hose	Anamet	N/A	N/A	SP-HRC-217-1	1987	Replacement	No
Flex Hose	Anamet	N/A	N/A	SP-HRC-218-1	1987	Replacement	No

7. Description of Work Replaced Non-ASME flex hoses (2 per unit) and flange stud bolts at HPCI Pump Room Unit Cooler 2V-209A & 2V-209B

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure * psi Test Temp. * °F
* See Remarks

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Test Conditions: C78158: 127 psi @ 59°F, C78266: 150 psi @ 52°F
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None
Certificate of Authorization No. N/A Expiration Date N/A
Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Supintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 NOV 20 1987 to DEC 18 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 25 19 88

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

1. Owner Pennsylvania Power & Light Co. Date December 18, 1987
Name
Two North Ninth St., Allentown, PA 18101 Address
Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 Address
PMR 87-9210, CWO C78156, C78157
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Building Heating & Ventilation-234F, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flex Hose	Anamet	N/A	N/A	SP-HRC-219-6	1987	Replacement	No
Flex Hose	Anamet	N/A	N/A	SP-HRC-220-6	1987	Replacement	No
Flex Hose	Anamet	N/A	N/A	SP-HRC-217-2	1987	Replacement	No
Flex Hose	Anamet	N/A	N/A	SP-HRC-218-2	1987	Replacement	No

7. Description of Work Replace Non-ASME ESW Flex Hoses (2 per unit) and flange stud bolts at RCIC Room Unit Coolers 2V-208A & 2V-208B
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp _____ °F
* See Remarks

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Test Conditions: C78156; 150 psi @ 61°F, C78157; 125psi @ 59°F

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 NOV 20 1987 to DEC 16 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Regan Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 25 19 88

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

1. Owner Pennsylvania Power & Light Co. Date December 18, 1987
Name
Two North Ninth St., Allentown, PA 18101
Address Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station Unit II
Name PMR 87-9210, CWO C-78160, C-78161,
P.O. Box 467, Berwick, PA 18603 C-78162, C-78163
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Building Heating & Ventilation-234G, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacement: 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-226-3	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-227-1	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-223-6	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-224-7	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-223-13	1987	Replacement	No

7. Description of Work Replaced Non-ASME ESW flex hoses (4 per unit) and flange stud bolts at RHR Pump Room Unit Coolers 2V-210A, -210B, -210C, & -210D
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure * psi Test Temp. * °F

* See Remarks

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Test Conditions: C-78160; 125 psi @ 54°F, C-78161; 150 psi @ 50°F,
C-78162; 125 psi @ 54°F, C-78163; 125 psi @ 50°F
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 NOV 20 1987 to DEC 16 1987 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measure described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rigutti Inspector's Signature Commission NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Aug. 25 19 88

1. Owner Pennsylvania Power & Light Co. Date December 18, 1987
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name Repair Organization P.O. No., Job No., etc.
P.O. Box 467, Berwick, PA 18603
Address PMR 87-9210, CWO C-78160, C-78161,
C-78162, C-78163
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Building Heating & Ventilation-234G, Class III
5. (a) Applicable Construction Code ASME III is 71 Edition, Winter '72 Addenda. N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-224-14	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-230-7	1987	Replacement	No
Flex Hoses (2)	Anamet	N/A	N/A	SP-HRC-231-5	1987	Replacement	No

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

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 85-9016, CWO C66767, C66768
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Building Heating & Ventilation-System 234U, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-229-6	1983	Replaced*	Yes
Small Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-223-12	1983	Replaced*	Yes
Small Pipe Sub-Assembly	PP&L	N/A	N/A	SP-HRC-229-6	1987	Replacement	No
Small Pipe Sub-Assembly	PP&L	N/A	N/A	SP-HRC-223-12	1987	Replacement	No

7. Description of Work Removed flow switches FSL-27203ASB, installed plugs & seal welded

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure *Partial
Other Pressure 100 psi Test Temp. 25
130 8/24/88 Ambient 8/24/88

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 NOV 12 1986 to JAN 19 1987, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III NE7980 PA2204 NIBS IS
 Inspector's Signature Commissions National Board, State, Province, and Endorsements

Date Aug. 25 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 86-9053, CWO C66551, C66552,
Address C66553
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Reactor Building Heating & Ventilation-System 234U, Class 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter: '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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-EBC-209-1	1983	Replaced*	Yes
Small Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-EBC-209-3	1983	Replaced*	Yes
Small Pipe Sub-Assembly	PP&L	N/A	N/A	SP-EBC-209-1	1986	Replacement	No
Small Pipe Sub-Assembly	PP&L	N/A	N/A	SP-EBC-209-3	1986	Replacement	No

7. Description of Work Relocated existing check valves 24560A&B from vertical to horizontal run of pipe *Partial
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure * psi; Test Temp. * °F
* See Remarks

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Test Conditions: 24560A; 1129 psi @ 103°F, 24560B; 1159 psi @101°F
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 AUG 29 1986 to NOV 17 1986, and state that

to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commission NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 25 19 88

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

1. Owner Pennsylvania Power & Light Co. Date June 24, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 86-9039, CWO C78173, C78172 *
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by * Pennsylvania Power & Light Co. Type Code Symbol Stamp None *
Name Authorization No. N/A *
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A *
Address
4. Identification of System Feedwater, System 245A, Class 2 1516-1, 1534
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A PAD Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81 8/29/88
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" 900# Pressure Seal	Anchor Darling	E5853-71-1	N/A	HV-244F104	1976	Replaced	Yes
Globe Valve							
4" 900# Pressure Seal	Anchor Darling	E6802-1-1	N/A	HV-244F104	1986	Replacement	Yes
Globe Valve							
4" Pipe Support	Bechtel	N/A	N/A	DB3-222-H55	1983	Replaced	No

Note 3
Note 1
Note 2

7. Description of Work Replacement of 4" 900# Globe Valve and Deletion of existing supports

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1820 psi Test Temp. 67 °F (TP-261-013)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

NOTE 1 - Seat ring replaced by A-D per attached QAS-14-1 Data Report

NOTE 2 - Component deleted

*See NOTE 3 on Sheet 2

FORM NIS-2 (Back)

9. Remarks See attached NPV-1 Forms
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair &

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 None

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

Signed [Signature] Date August 24, 1988 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 DEC 16 1987 to APR 28 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogen Inspector's Signature Commission NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Aug 25 1988

1. Owner Pennsylvania Power & Light Co. Date June 24, 1988
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 2
Name Address

2. Plant Susquehanna Steam Electric Station Unit II
P.O. Box 467, Berwick, PA 18603 PMR 86-9039, CWO C78173, C78172
Name Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Feedwater, System 245A, Class 2

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A CAS Code Case 1516-1, 1534
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81 8/25/88

6. Identification of Components Replaced or Replaced and Replacement Components

Name of 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" Pipe Spool	Bechtel	N/A	N/A	DBB-222-2-10	1983	Replaced*	Yes	
4" Pipe Spool	PP&L	N/A	N/A	DBB-222-2-10	1988	Replacement	No	
Mechanical Shock	Pacific Scientific	14406	N/A	DBB-222-H55	1982	Replaced	No	Note 2
Mechanical Shock	Pacific Scientific	14408	N/A	DBB-222-H55	1982	Replaced	No	Note 2

*Partial

NOTE 2: Component deleted
 NOTE 3: For seat ring replacement:
 Work Performed by Anchor/Darling Valve Company
 701 First Street, Williamsport, PA 17701
 Code Symbol Stamp N, Authorization No. N1712, Expiration Date 4/15/89
 Shop Order No. RA611-1

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company
701 First St., Williamsport, PA 17701 Order No. E6802
(Name & Address of Manufacturer)

2. Manufactured for Pennsylvania Power & Light Company
2 N. 9th St., Allentown, PA 18101 Order No. 6-14461-1
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant 5 Miles N.E. of Berwick on U.S. Rt. 11 (Susquehanna Station)

5. ~~XXXXXX~~ Valve Identification E6802-1-1
4"-900#-Globe Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. W8422159 R/C Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

5. Design Conditions 1783 psi 546 °F
(Pressure) (Temperature)

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			
<u>Body HT. #V8729</u> <u>S/N U2812</u>	<u>SA216-WC8</u>	<u>Quaker Alloy, Inc.</u>	
(b) Forgings			
<u>Bonnet HT. #217813</u> <u>S/N 5</u>	<u>SA105</u>	<u>Cann & Saul Steel Company</u>	
<u>Disc HT. #217813</u> <u>S/N 42</u>	<u>SA105</u>	<u>Cann & Saul Steel Company</u>	

No. 86-1370
 RECORD PACKAGE
 PAGE 49 OF 49

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Gasket Retaining Ring HT, #95036	SA515-70	Mills Alloy Steel Company	

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file as Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
 Stress analysis report on file as 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 9/8 19 86 Signed Anchor/Darling Valve Co., R. L. Stannett
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/89

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 ~~XXXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the equipment described in this Data Report on 42280th 9-9 1986, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 9-9 19 86

No. 86-1370
 RECORD PACKAGE 19
 PAGE 29 OF 29

Charles Young
(Inspector) Commissions 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 RA611-1
701 First Street, Williamsport, PA 17701 (Shop Order No.)
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 5 Miles N.E. of Berwick, PA on US Rt. 11
5. a: Identification of Component Repaired or Replacement Component ---
b: Name of Manufacturer (If different from Line 1) ---
c: Identifying Nos. E6802-1-1 N/A N/A 1986
(Mfr.'s Serial No.) (Mfr.'s Id. No.) (Other) (Year Built)
6. Applicable Edition of Section III of ASME Code 19 71 Addenda Winter 1972 Code Case 1516-1, 1534
7. Description of Work Valve returned for seat ring replacement. Reference drawing
(Use of additional sheet(s) or sketch(es) is acceptable if properly identified)
W8422159, Rev. D

Body Heat #V8729, S/N U2812

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 Quality Engineer
(Authorized Representative of Repair Organization) (Title)

3/21, 19 88. Our ASME Certificate of Authorization No. N1712 to use the N symbol
(Date)

expires 4/15/89.

QUALITY DATE 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 3-22, 19 88 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with Section III of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-22-88 Charles Young Commissions Pennsylvania 2392
(Inspector) (State or Providence, Nat'l Board)
Charles Young

ANCHOR/DARLING VALVE COMPANY
WILLIAMSPORT, PA 17701

ORDER NO. RAG11-001-999-1	VALVE SIZE & DESCRIPTION 4" 900° GLOBE BODY	SERIAL NO. U2812	Material Rejection Notice REWORK TICKET	No. 00601
HEAT NO. V8729	DESCRIPTION 4" 900° GLOBE BODY	OPERATOR S.D. + I.C.H.	VENDOR RESP.	PREPARED BY DATE RAS 3/3/88
REASON FOR REJECTION C21313 R/-	MATERIAL SA216-WCB	CITY 1		

VALVE # 602-1-1 RETURNED BY CUSTOMER FOR REPLACING NEW SEAT RING IN BODY
NOTE: SEAT RING REPLACEMENT FURNISHED BY CUSTOMER. REF NOV SO' PD 147-1 HEAT - 218762A
DRAWING - B64909 R1 - SA105

DISPOSITION

MATERIAL REVIEW BOARD APPROVAL

QUALITY ASSURANCE
ANI Cy Young
R. Stannitt 3/3/88

OPER NO	DESCRIPTION	RE-INSPECT	ACCEPT	REJECT	CUSTOMER WITNESS	CODE INSPECTOR WITNESS
500	INSPECT VALVE + SEAT RING TO INSURE TRACEABILITY HAS BEEN MAINTAINED.	3/2/88				W.P. 3-2-88
501	DISASSEMBLE VALVE INSPECT PARTS + SEAT RING FOR DAMAGE.	3-3-88 LEVEL 11				W.P. 3-2-88
502	CUT OUT SEAT RING	3/3/88				W.P. 3-2-88
503	DIM INSP SEAT SOCKET + PREP	DATE 3-4-88				W.P. 3-2-88
504	MT SEAT SOCKET + PREP TO MGCS-112 R/C	3-7-88				W.P. 3-2-88
505	WELD IN NEW SEAT RING HT - 218762A W/4-G 1-10 911111 3-2-88	DATE 3-7-88				W.P. 3-2-88
506	RE-MACHINE + BLEND AS REQUIRED REF - B62948	DATE 3-10-88				W.P. 3-2-88
507	DIM INSPECT . MT SEAL WELD + GROUND AREA'S OF BODY TO MGCS-112 R/C	DATE 3-10-88				W.P. 3-2-88
508	LP HARDFACING TO MGCS-108 R/C	DATE 3-10-88				W.P. 3-2-88
509	VISUAL INSPECT TO MGCS-86 R/B	DATE 3-10-88				W.P. 3-2-88
510	REASSEMBLY VALVE WITH NEW P.S. GASKET	DATE 3-10-88				W.P. 3-2-88
511	TEST VALVE PER EPS-128 R/A	DATE 3-10-88				W.P. 3-2-88
512	Lap Seat	DATE 3-9-88				W.P. 3-2-88

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

1. Owner Pennsylvania Power & Light Co. Date April 26, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 84-9013, CWO C78028, C78029
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal, System 249A, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
Construction Code ASME III 1971 Ed. W-73 Addenda for Anderson-
Greenwood valves
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Instrument Tubing	Bechtel	N/A	N/A	JD-33-1-3A	1984	Replaced*	Yes
Instrument Tubing	PP&L	N/A	N/A	JD-33-1-3A	1988	Replacement	No
Instrument Tubing	Bechtel	N/A	N/A	JD-33-1-3B	1984	Replaced*	Yes
Instrument Tubing	PP&L	N/A	N/A	JD-33-1-3B	1988	Replacement	No
Instrument Tubing	Bechtel	N/A	N/A	JD-34-1-1D	1984	Replaced*	Yes

7. Description of Work Installation of Low Range Pump Suction Gauges PI-25194A-D
*Partial
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X None
 Other Pressure _____, psi; Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 forms attached for instrument valves with S/N's N22262
Applicable Manufacturer's Data Reports to be attached
and N22715. NPV-1 forms for instrument valves with S/N's N14619, N14637,
N14649, N14687, N14698, N14708, N14716, N14717 are contained in the
original N-5 documentation.

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 OCT 9 1987 to APR 19 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NE7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 25 19 88

1. Owner Pennsylvania Power & Light Co. Date April 26, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 84-9013, CWO C78028, C78029
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal, System 249A, Class 2
5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Instrument Tubing	PP&L	N/A	N/A	JD-34-1-1D	1988	Replacement	No
Instrument Tubing	Bechtel	N/A	N/A	JD-34-1-1F	1984	Replaced*	Yes
Instrument Tubing	PP&L	N/A	N/A	JD-34-1-1F	1988	Replacement	No
Instrument Valve	Anderson-Greenwood	N14619	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14637	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14649	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14687	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14698	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14708	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14716	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N14717	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N22262	N/A	None	1982	Replacement	Yes Note 1
Instrument Valve	Anderson-Greenwood	N22715	N/A	None	1982	Replacement	Yes Note 1

NOTE 1 - Component added to system

10-6-3-2-3110707

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
N02-4089-511	SA479-316/ SA213-316	AGCO	Body Weldment
N02-4038-832	SA479-316/ A278-316	AGCO	Bonnet Assy

5. Hydrostatic test _____ psi. 5400

CERTIFICATION OF DESIGN

Design information on file at Anderson, Greenwood & Company

Stress analysis report on file at N/A

Design specifications certified by Lawrence Sturgis Loomer (I) Prof. Eng. State CA Reg. No. 19875

Stress analysis report certified by N/A (I) Prof. Eng. State N/A Reg. No. N/A

(I) Signature not required. List name only.

We certify that the materials used in this report are correct.

Date 3/16 19 85 Signed Anderson, Greenwood & Co. *Joseph A. Parke*

Certificate of Authorization No. 2203 expires 8/4/87

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 MA and employed by C.U.I.C.

Res. in an MA have inspected the equipment described in this Data Report on 3/16 19 85, 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 3/16 19 85

Smith Gray Inspector 2201027 License No 2843

RDP-85-147

73525110709

FORM NPV-1 (back)

Part No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
N02-4089-511	SA479-316/ SA213-316	AGCO	Body Weldment
N02-4038-832	SA479-316/ A276-316	AGCO	Bonnet Assy

8. Hydro-static 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 Sturgis Loomer (I) Prof. Eng. State PA Reg. No. 19875-B

Stress analysis report certified by N/A (I) Prof. Eng. State N/A Reg. No. N/A

(I) Signature not required. List name only.

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

Date 3/16 19 85 Signed Anderson, Greenwood & Co. By Joseph A. Parks

Certificate of Authorization No. 2203 expires 8/4/87

CERTIFICATE OF SHIP 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 TX and employed by S.A.L.C.

at Boston, Mass have inspected the equipment described in this Data Report on 3-16 19 85 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 3-16 19 85

Brent J. [Signature] Commission No. 1027 from NC 2843

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

1. Owner Pennsylvania Power & Light Co. Date June 30, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 3
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PME 86-7034, CWO C78295, C78296
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal, System 2, 2A, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	NOTE
Mech. Shock & Assoc. Com.	Pacific Scientific	04271	N/A	GBB-204-H98	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	04273	N/A	GBB-204-H103	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	08642	N/A	GBB-204-H96	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	09525	N/A	GBB-204-H84	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	06970	N/A	GBB-204-H34	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	09465	N/A					
Mech. Shock & Assoc. Com.	Pacific Scientific	10539	N/A					

7. Description of Work Perform snubber reduction and load balance
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X None
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12-82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

NOTE 1 - Component Deleted or Abandoned
 NOTE 2 - Shock Suppressor Replaced with Rigid Sway Strut

FORM NIS-2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 FEB 12 1988 to APR 19 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions BT600 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 25 19 88

1. Owner Pennsylvania Power & Light Co. Date June 30, 1988
 Name _____
 Two North Ninth St., Allentown, PA 18101
 Address _____

2. Plant Susquehanna Steam Electric Station Unit II
 Name _____
 P.O. Box 467, Berwick, PA 18603
 Address _____
 Repair Organization P.O. No., Job No., etc. _____
 PMR 86-7034, CWO C78295, C78296

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

4. Identification of System Residual Heat Removal, System 249A, Class 2

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	NOTE
Mech. Shock & Assoc. Com.	Pacific Scientific	11023	N/A	GBB-204-H24	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	09485 09486	N/A	GBB-204-H81	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	03177	N/A	GBB-204-H28	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	08619	N/A	GBB-204-H22	1984	Replaced	No	2
Mech. Shock & Assoc. Com.	Pacific Scientific	01629 01630	N/A	GBB-204-H86	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	04567	N/A	GBB-204-H91	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	00279	N/A	GBB-206-H55	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	07219	N/A	GBB-206-76	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	09532	N/A	GBB-204-H10	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	08625	N/A	GBB-204-H4	1984	Replaced	No	2

1. Owner Pennsylvania Power & Light Co. Date June 30, 1988
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 3
Name
Address
2. Plant Susquehanna Steam Electric Station Unit II
P.O. Box 467, Berwick, PA 18603 PMR 86-7034, CWO C78295, C78296
Name Repair Organization # O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Name Address Expiration Date N/A
4. Identification of System Residual Heat Removal, System 249A, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Assessment	ASME Code Stamps (Yes or No)	NOTE
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Mech. Shock & Assoc. Com.	Pacific Scientific	10564	N/A	GBB-204-H16	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	06968	N/A	GBB-204-H6	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	14185	N/A	GBB-204-H94	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	03681	N/A	GBB-206-H1	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	00375	N/A	GBB-206-H60	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	09445	N/A	GBB-206-H61	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	08621	N/A	GBB-205-H96	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	14190	N/A	GBB-205-H81	1984	Replaced	No	1
Mech. Shock & Assoc. Com.	Pacific Scientific	03683	N/A	GBB-206-H10	1984	Replaced	No	1

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

1. Owner Pennsylvania Power & Light Co. Date June 30, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 5
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name PMR 86-7034, CWO C78293, C78294, C78295,
P.O. Box 467, Berwick, PA 18603 C78296, C88101, C88172, C88173
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal, System 249B, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" Pipe Spool	Bechtel	N/A	N/A	GBB-205-1-1	1984	Replaced*	Yes
20" Pipe Spool	PP&L	N/A	N/A	GBB-205-1	1984	Replacement	No
20" Pipe Spool	Bechtel	N/A	N/A	GBB-205-2-1	1984	Replaced*	Yes
20" Pipe Spool	PP&L	N/A	N/A	GBB-205-2	1984	Replacement	No
6" Pipe Spool	Bechtel	N/A	N/A	GBB-215-1	1984	Replaced	Yes

7. Description of Work Cut and capped 20" GBB-205 (2 places) and abandoned portion of system to delete HPCI steam supply for RHR steam condensing mode.
Performed snubber reduction. *Partial

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 350 psi; Test Temp 20 °F (TP-249-025 & 249-026)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12-82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

- NOTE 1 - Variable spring hanger revised load setting
 NOTE 2 - Component abandoned in place
 NOTE 3 - Shock suppressor replaced with rigid strut
 NOTE 4 - Component Removed
 NOTE 5 - Replaced spring with larger load rated component

FORM NIS-2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 FEB 17 1988 to APR 19 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions ND7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 25 19 88

1. Owner Pennsylvania Power & Light Co.
Name

Date June 21, 1988

Two North Ninth St., Allentown, PA 18101
Address

Sheet 2 of 5

2. Plant Susquehanna Steam Electric Station
Name

Unit II
PMR 86-7034, CWO C78293, C78294, C78295,
C78296, C88101, C88172, C88173

P.O. Box 467, Berwick, PA 18603
Address

Repair Organization # 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 Residual Heat Removal, System 249B, Class 2

5. (a) Applicable Conversion Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repair or Replacements 19 80, Winter '81

6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
6" Control Valve	Bechtel	N/A	N/A	PV2F051A	1976	Replaced	Yes	Note 2
6" Control Valve	Bechtel	N/A	N/A	PV2F051B	1977	Replaced	Yes	Note 2
6" Control Valve	Bechtel	N/A	N/A	PV2F052A	1983	Replaced	Yes	Note 2
6" Control Valve	Bechtel	N/A	N/A	PV2F052B	1978	Replaced	Yes	Note 2
Small Pipe Assembly	Bechtel	N/A	N/A	SP-GBB-205-3	1984	Replaced*	Yes	
Small Pipe Assembly	PP&L	N/A	N/A	SP-CBB-205-3	1988	Replacement	No	
Small Pipe Assembly	Bechtel	N/A	N/A	SP-GBB-205-4	1984	Replaced*	Yes	
Small Pipe Assembly	PP&L	N/A	N/A	SP-GBB-205-4	1988	Replacement	No	
Small Pipe Assembly	Bechtel	N/A	N/A	SP-GBB-205-5	1984	Replaced	Yes	Note 4
Small Pipe Assembly	Bechtel	N/A	N/A	SP-GBB-205-6	1984	Replaced	Yes	Note 4
Small Pipe Assembly	Bechtel	N/A	N/A	SP-DBB-215-2	1984	Replaced	Yes	Note 2
Small Pipe Assembly	Bechtel	N/A	N/A	SP-DBB-215-4	1984	Replaced	Yes	Note 2

* Partial

1. Owner Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 19101
Address

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 19603
Address

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 19101
Address

Date June 30, 1988

Sheet 3 of 5

Unit II
PMR 86-7034, CWO C78293, C78294, C78295,
C78296, C88101, C88172, C88173
Repair Organization P.O. No. Job No. etc.

Type Code Symbol Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal, System 249B, Class 2

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Prod No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Variable								
Spring Assy	Grinnell	N/A	N/A	GBB-205-H90	1984	Replaced	No	Note 5
Mech. Shock & Assoc. Com.	Pacific Scientific	10890	N/A	GBB-205-H94	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	09467	N/A	GBB-205-H95	1984	Replaced	No	Note 3
Mech. Shock & Assoc. Com.	Pacific Scientific	09445	N/A	GBB-205-H92	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	09457	N/A	GBB-205-H93	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	09456	N/A	GBB-205-H93	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	19529	N/A	GBB-216-H60	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	19530	N/A	GBB-216-H60	1984	Replaced	No	Note 4
Variable								
Spring Assy	Grinnell	N/A	N/A	GBB-205-H84	1984	Replaced	No	Note 1
Mech. Shock & Assoc. Com.	Pacific Scientific	14677	N/A	GBB-205-H82	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	19477	N/A	GBB-205-H87	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	00041	N/A	GBB-205-H88	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	09450	N/A	GBB-205-H83	1984	Replaced	No	Note 3
Mech. Shock & Assoc. Com.	Pacific Scientific	19481	N/A	GBB-216-H54	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	19475	N/A	GBB-216-H54	1984	Replaced	No	Note 4

1. Owner Pennsylvania Power & Light Co. Date June 30, 1988
 Name
Two North Ninth St., Allentown, PA 18101 Sheet 4 of 5
 Address

2. Plant Susquehanna Steam Electric Station Unit II
 Name
P.O. Box 467, Berwick, PA 18803 PMR 86-7034, CWO C78293, C78294, C78295,
 C78296, C88101, C88172, C88173
 Address Repair Organization P.O. No. Job No. etc.

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

4. Identification of System Residual Heat Removal, System 249B, Class 2

5. (a) Applicable Construction Code ASME III '87 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 80, Winter '81

6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Mech. Shock & Assoc. Com.	Pacific Scientific	20820	N/A	DBB-215-H58	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	20803	N/A	DBB-215-H59	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	23383	N/A	DBB-215-H9	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	06839	N/A	DBB-215-H7	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	20412	N/A	DBB-215-H56	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	21542	N/A	DBB-215-H57	1984	Replaced	No	Note 4
Variable Spring Hgr	Grinnell	N/A	N/A	DBB-215-H97	1984	Replaced	No	Note 2
Variable Spring Hgr	Grinnell	N/A	N/A	DBB-215-H8	1984	Replaced	No	Note 2
Mech. Shock & Assoc. Com.	Pacific Scientific	23380	N/A	DBB-215-H53	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	23381	N/A	DBB-215-H54	1984	Replaced	No	Note 4
Variable Spring Hgr	Grinnell	N/A	N/A	DBB-215-H2	1984	Replaced	No	Note 2
Mech. Shock & Assoc. Com.	Pacific Scientific	20187	N/A	DBB-215-H1	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	19470	N/A	DBB-215-H3	1984	Replaced	No	Note 4

1. Owner Pennsylvania Power & Light Co.

Date June 30, 1988

Two North Ninth St., Allentown, PA 18101

Sheet 5 of 5

2. Plant Susquehanna Steam Electric Station

Unit II

P.O. Box 467, Berwick, PA 18603

PMR 86-7034, CWO C78293, C78294, C78295,
C78296, C88101, C88172, C88173
Repair Organization P.O. No. Job No. etc.

3. Work Performed by Pennsylvania Power & Light Co.

Type Code Symbol Stamp None

Two North Ninth St., Allentown, PA 18101

Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal, System 249B, Class 2

5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Mech. Shock & Assoc. Com.	Pacific Scientific	13432	N/A	DBB-215-H51	1984	Replaced	No	Note 4
Mech. Shock & Assoc. Com.	Pacific Scientific	23379	N/A	DBB-215-H52	1984	Replaced	No	Note 4
Variable Spring Hgr	Grinnell	N/A	N/A	DBB-205-H98	1984	Replaced	No	Note 2

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

1. Owner Pennsylvania Power & Light Co. Date August 3, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 NCR 88-0369, CWJ C88429, C88434
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Core Spray, System 251A, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Variable Spring Hanger	Bechtel	N/A	N/A	DCA-207-H2	1983	Replaced*	No
Variable Spring Hanger	PP&L	N/A	N/A	DCA-207-H2	1988	Replacement	No
Variable Spring Hanger	Bechtel	N/A	N/A	DCA-207-H1	1983	Replaced*	No
Variable Spring Hanger	PP&L	N/A	N/A	DCA-207-H1	1988	Replacement	No

7. Description of Work Replaced damaged spring can rods. *Partial
8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F X None

NOTE: Supplemental sheets in form of lists, sketch, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Bank)

9. Remarks None
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None
 Certificate of Authorization No. N/A Expiration Date N/A
 Signed [Signature] Date August 24, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 JUN 1 1988 to JUN 7 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Poynter Commission # KB1000 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements
 Date Aug 25 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name PMR 86-7034, CWO C78292, C88065,
P.O. Box 467, Berwick, PA 18603 C88171
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System High Pressure Coolant Injection, System 252B, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
10" Pipe Spool	Bechtel	N/A	N/A	DBB-210	1983	Replaced	Yes	Note
10" Pipe Spool	PP&L	N/A	N/A	DBB-214	1988	Replacement	No	
8" Pipe Spool	Bechtel	N/A	N/A	DBB-215	1983	Replaced	Yes	Note
1" Pipe Spool	Bechtel	N/A	N/A	SP-DBB-215-1	1983	Replaced	Yes	Note
1" Pipe Spool	Bechtel	N/A	N/A	SP-DBB-215-2	1983	Replaced	Yes	Note

7. Description of Work Replaced 10" tee with a 90° elbow in line DBB-214-abandoned DBB-215 and SP-DBB-215-1&2 to delete HPCI steam supply for RHR steam condensing mode. Performed snubber reduction

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1537.5 psi Test Temp 74 °F (TP-252-002)

NOTE Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

NOTE 1 - Component abandoned in place

NOTE 2 - Component removed

FORM NIS-2 (Back)

9. Remarks None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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. REPORT OF REPLACEMENT

Type Code Symbol Stamp None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF IN-SERVICE INSPECTION

I, the undersigned, holding 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 FEB 11 1988 to APR 23 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Regen III Commission ED7990 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 25 19 88

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Two North Ninth St., Allentown, PA 18101
Name Address
2. Plant Susquehanna Steam Electric Station Unit II
P.O. Box 467, Berwick, PA 18603
Name Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Name Address Expiration Date N/A
4. Identification of System High Pressure Coolant Injection, System 252B, Class 2
5. (a) Applicable Construction Code ASME III, 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Pipe Support	Bechtel	N/A	N/A	DBB-215-H16	1983	Replaced	No	Note 1
Variable Spring	Grinnell	N/A	N/A	DBB-215-H15	1983	Replaced	No	Note 1
Pipe Support	Bechtel	N/A	N/A	DBB-215-H14	1983	Replaced	No	Note 1
Variable Spring	Grinnell	N/A	N/A	DBB-215-H13	1983	Replaced	No	Note 1
Pipe Support	Bechtel	N/A	N/A	DBB-215-H12	1983	Replaced	No	Note 1
Mech. Shock	Pacific Scientific	09477	N/A	DBB-215-H11	1983	Replaced	No	Note 2
Variable Spring	Grinnell	N/A	N/A	DBB-215-H10	1983	Replaced	No	Note 1
Pipe Support	Bechtel	N/A	N/A	DBB-215-H19	1983	Replaced	No	Note 1
Anchor	Bechtel	N/A	N/A	DBB-215-H5	1983	Replaced	No	Note 1
Mech. Shock	Pacific Scientific	03677	N/A	DBB-215-H60	1983	Replaced	No	Note 2
Pipe Support	Bechtel	N/A	N/A	DBB-215-H6	1983	Replaced	No	Note 1
Pipe Support	Bechtel	N/A	N/A	DBB-215-H4	1983	Replaced	No	Note 1
Mech. Shock Assy	Pacific Scientific	02157	N/A	SP-DBB-215-H5007	1983	Replaced	No	Note 2

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18703
Address PMR 86-7034, CWO C78292, C88065, C88171
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System High Pressure Coolant Injection, System 252B, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Pipe Support	Bechtel	N/A	N/A	SP-DBB-215-H5003	1983	Replaced	No	Note 1
Variable Spring	Grinnell	N/A	N/A	SP-DBB-215-H5008	1983	Replaced	No	Note 1
Mech. Hook Assy	Pacific Scientific	02537	N/A	SP-DBB-215-H5009	1983	Replaced	No	Note 2
Mech. Hook Assy	Pacific Scientific	17230	N/A	SP-DBB-215-H5005	1983	Replaced	No	Note 2
Pipe Support	Bechtel	N/A	N/A	SP-DBB-215-H5004	1983	Replaced	No	Note 1
1" Strong-back LSH-E11-74024	Bechtel	N/A	N/A	SP-DBB-215-3	1983	Replaced	No	Note 1

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

1. Owner Pennsylvania Power & Light Co. Date August 15, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 3
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 87-3013A, CWO C78306
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Water Cleanup, System 261B, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-411 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
Mech. Shock & Assoc. Com.	Pacific Scientific	19392	N/A	DBA-201-H1	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	20839	N/A	DBA-201-H2	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	19532	N/A	DBA-201-H5	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	12954	N/A	DBA-201-H8	1983	Replaced	No	Note
Mech. Shock & Assoc. Com.	Pacific Scientific	19513	N/A	DBA-201-H11	1983	Replaced	No	Note

7. Description of Work Snubber Reduction
8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp _____ °F X None

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12-82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

NOTE 1 - Component Deleted
NOTE 2 - Component Modified

FORM NIS-2 (Back)

9. Remarks None ^{CSA} ~~Factor~~ Reference Calculation Number SR2875
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 FEB 23 1988 to MAY 11 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 29 19 88

1. Owner Pennsylvania Power & Light Co. Date August 15, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 19403
Address
PMR 87-1013A, CWO 078306
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101
Address
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System Reactor Water Cleanup, System 261B, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Appendix N-411 Code Case
 (b) Applicable Edition of Section XI Utilized for Repair or Replacements 19 80, Winter '81
6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
Mech. Shock & Pacific Assoc. Com.	Scientific	19459	N/A	DBA-201-H14	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	14416	N/A	DBA-201-H15	1983	Replaced	No	Note 2
Mech. Shock & Pacific Assoc. Com.	Scientific	20830	N/A	DBA-201-H17	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	20835	N/A	DBA-201-H18	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	19785	N/A	DBA-201-H21	1983	Replaced	No	Note 2
Mech. Shock & Pacific Assoc. Com.	Scientific	19822	N/A	DBA-201-H24	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	22900	N/A	SP-DCA-233-H3003	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	16401	N/A	SP-DCA-233-H3004	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	06293	N/A	SP-DCA-233-H3007	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	05134	N/A	SP-DCA-233-H3008	1983	Replaced	No	Note 2
Mech. Shock & Pacific Assoc. Com.	Scientific	13060	N/A	SP-DCA-234-H1	1983	Replaced	No	Note 1

1. Owner Pennsylvania Power & Light Co. Date August 15, 1988
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 19403
Address PMR 87-3013A, CWO 078306
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Water Cleanup, System 261B, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N-411 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Replaced or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Mech. Shock & Pacific Assoc. Com.	Scientific	06275	N/A	SP-DCA-234-H2	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	scientific	21103	N/A	SP-DCA-234-H3014	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	23035	N/A	SP-DCA-234-H3015	1983	Replaced	No	Note 1
Mech. Shock & Pacific Assoc. Com.	Scientific	20402	N/A	DBA-201-H12	1983	Replaced	No	Note 2

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

1. Owner Pennsylvania Power & Light Co. Date August 1, 1988
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 PMR 88-3030, WA-V83780, CWO C88416,
Address C88417
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Reactor Water Cleanup, System 261B, Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda 1567
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81 N/A Code Case

6. Identification of Components Required or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Anchor Darling	E5853-65-1	N/A	HV-244F004	1975	Replaced	Yes
Valve	Anchor Darling	E5796-3-2	N/A	HV-244F004	1988	Replacement	Yes

7. Description of Work Cut out existing 800# gate valve, install new 900# gate valve, weld pipe cap to new valve leak-off connection

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1600 psi Test Temp 77 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N (Back)

9. Remarks New valve upgraded from Class 2 to Class 1, see attached NPV-1 forms

Applicator's Manufacturer's Data Reports to be attached

CERTIFICATE 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. replacement

Type Code Symbol Stamp None

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

Signed [Signature] Date August 24, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 Walton, Massachusetts have inspected the components described in this Owner's Report during the period MAY 21 1988 to JUN 6 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Riger, Jr. NB7980 PA.204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 29 19 88

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. _____
(Name & Address of Manufacturer)

2. Manufactured for Pennsylvania Power & Light Company Order No. S-04660-5
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant P.O. Box 467, Berwick, PA 18603 Susquehanna Station

5. ~~Unique~~ Valve Identification E5796-3-2

6"-900#-FW Gate Valve w/SMB-00 Actuator

(Brief description of service for which equipment was designed)

(a) Drawing No. 94-13556 R/ Prepared by Anchor/Darling Valve Company

(b) National Board No. N/A

5. Design Condition : 2291 2790 (Pressure) psi 385 100 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1971, Addenda Date Winter 1972, Case No. 1567

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body HT. #U558-2A S/N 18	SA216-WCB	Ebasco Materials Lab	
Disc HT. #U455-10A S/N 1	SA216-WCB	Ebasco Materials Lab	
(b) Forgings			
Bonnet HT. #221518 S/N 1	SA105	Cann & Saul Stee Company	
Gaske. Retaining Ring HT. #212673	SA105	Cann & Saul Stee Company	

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
N/A			

8. Hydrostatic test 4200 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 1770
 Stress analysis report on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA
 Design specifications certified by Ivan Grosz (1) Prof. Eng. State NC Reg. No. 9986
 Stress analysis report certified by R. S. Farrell (1) Prof. Eng. State PA Reg. No. 035216-E
 (1) Signature not required. List name only.

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

Date 5/26 19 88 Signed Anchor/Darling Valve Co. R. S. Farrell
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/89

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~MASSACHUSETTS~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 5-27 19 88, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME 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 5-27 19 88

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 St., Williamsport, Pa. 17701 Order No. E-5796
(Name & Address of Manufacturer)
2. Manufactured for Ebasco Services Incorporated
Two Rector St., New York, N. Y. 10006 Order No. NY-435013
(Name and Address)
3. Owner Carolina Power & Light Company
4. Location of Plant The Shearon Harris Nuclear Power Plant, Wake County, North Carolina
5. ~~XXXXXX~~ Valve Identification E-5796-3-2, Tag #2M-435B-2
6" - 900# Motor Operated C. S. Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 94-13956 Rev. D Prepared by Anchor/Darling Valve Co.

(b) National Board No. 62

6. Design Conditions 2160 psi 100 °F
(Pressure) (Temperature)

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

Edition 1971, Addenda Date 6/30/72, Case No. 1567

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body Ht. U556-2A, S/N 18	SA216-WCB	Ebasco Materials Lab	
Bonnet Ht. 221518, S/N 1	SA-105	Cann & Saul Steel Co.	
Disc Ht. U455-10A, S/N 1	SA216-WCB	Ebasco Materials Lab.	
(b) Forgings			
Gasket Retaining Ring Ht. 212673	SA-105	Cann & Saul Steel Co.	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> REVIEWED BY <i>C. Kelly</i> 3/5/76 EBASCO VQA REP. </div>			

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 Company, Williamsport, Pa. 17701
 Stress analysis report on file at N/A
 Design specifications certified by A. J. Rossi (1) Prof. Eng. State N.C. Reg. No. 4294
 Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____
 (1) Signature not required. List name only.

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

Date 3-2 19 76 Signed Anchor/Darling Valve Co. R. W. Swayne
(Manufacturer)

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 ~~XXXXXXXX~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 12-5-74 3-4 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-4 19 76

Russell E. Montgomery
(Inspector)
 Russell E. Montgomery

Commissions National Board No. 4765
Pennsylvania WC972
(National Board, State, Province and No.)

E and S

CONSTRUCTION

NIS-2 FORMS

August 30, 1988


R. A. Fedor
Supervisor - Document Control Center - SSES

SUSQUEHANNA STEAM ELECTRIC STATION
ASME CODE REPAIR REPORTS
(NIS-2 FORMS) UNIT 2
PLIS 31007 FILE R-7-4/A-19-1

Enclosed find a completed transmittal form, along with the original NIS-2 forms indicated thereon, as required by AD-QA-522, Para. 6.7.3. The forms are to be retained "as part of the original documentation package with the Code Data Reports" - i.e., should be filmed and indexed by original N-5 system number.

By copy of this letter, the attachments are also forwarded to the ISI Supervisor (along with an abstract of the E&S Code Repair and Replacement Summary) for incorporation into the Unit 2 Outage Summary Report and subsequent transmittal to the applicable agencies and organizations.

If you have any questions, please advise.



N. D. Pitcher
Construction Superintendent
Susquehanna SES

NDP/KC/blg

Attachments

cc: R. G. Byram	SSES - w/o
F. G. Butler	SSES - w/o
K. B. Cook	SSES - w/a
B. J. Willie	SSES - w/o
T. K. Steingass	SSES - w/a
W. R. Rogers	SSES - w/a
H. L. Webb	A2-4 - w/o
DCC	SSES - w/a
File	w/a

E&S CODE REPAIR AND REPLACEMENT SUMMARY

1.0 INTRODUCTION

This summary identifies the work performed on Unit 2 ASME Section XI (Classes 1, 2, and 3) items for which E&S Construction has NIS-2 responsibility. This work was performed during the Unit 2 Second Refueling Outage.

2.0 CODE COMPLIANCE SUMMARY

All work on ASME Section XI (Classes 1, 2, and 3) items meet the requirements of IWA-4000 (Repair Procedures) and IWA-7000 (Replacements) of ASME Section XI, 1980 Edition through winter 1981 Addenda.

3.0 REPAIR AND REPLACEMENT SUMMARY

Work in this area consists of Work Authorizations for Section XI Repairs and Replacements.

SYSTEM/CLASS	WORK AUTHORIZATION NUMBERS	DESCRIPTION
225A III	V73255 U83005 V83980	Tack yoke-to-bonnet of 2-26-015 Replace PCV 22643 body Replace main disc in SV22643
234K II	V83542	Machine disc in valve HV28791A2
245A I	V83504	Grind body of valve 241F010A
249A II	V83531	Blend surface indication on weld GBB-204-4-2B for ISI

249B II	V83145	Replace bolting and repair galled surface on "A" RHR heat exchanger
	V83532	Repair ISI indications on "B" RHR heat exchanger
249G I	V74060	Machine disc of valve HV-E11-2F050B
	V83632	Blend ISI indications on weld DCA-210-1-1A
250B I	V64761	Replace stem/plug assembly in valve HV249F088
250B II	V83615	Repair ISI defect in hanger HBB-201-(2)-H7
251A I	V64764	Replace stem/disc assembly in valve HV252F037B
252A II	V83674	Blend two ISI indications on weld DBB-220-1-3D
	V83687	Add shims to hanger DBB-212-H4
252B II	V83599	Replace Fig. 66 on hanger DBB-214-H24
	V83659	Replace level chamber LSH-E41-2N014. Also, blend indication on new chamber's end connection
253A I	V83494	Rework backseat on stem and backseat bushing on valve HV248F006
253A II	V73517	Replace disc in valve 248F031

253A II	V73861	Replace studs on iso SP-DCB-201-7
	V73862	Replace studs on iso SP-DCB-201-6
254A III	V73509	Replace valve 210109
261A III	Y70473	Add shims to hanger DBC-201-H11
261B III	V83013	Replace stem/disc assembly in valve 244813
262A I	V70940	Add shim plate to MST-222-H36
	V73455	Replace HV241F001 valve body Remove and reinstall small pipe clip on SP-DBA-212-H2556 Replace section of damaged pipe Replace disc in HV241F001
	V73456	Replace HV241F002 valve body Replace SPD-6 clip on SP-DBA-212-H2655 Replace HV241F002 disc
	V83533	Blend indication on Reactor nozzle N1A
	V83620	Blend indication on Reactor head
262A I	V83159 thru V83170 V83304 thru V83309 V83311 thru V83315 V83320	Replace the following CRD's with rebuilt spares: 5415, 4655, 4631, 4227, 3459, 3431, 3039, 2639, 2603, 3055, 2203, 0231, 3811, 4243, 3415, 2627, 1859, 1419, 1015, 4251, 5019, 5027, 5447, 5419

262A I	V83656 V83668	Replace flange bolts on all 185 CRD's
264A I	V83754	Refabricate and replace a portion of small pipe sup- port SP-DCA-250-H5001
264B I	V83902	Replace stem/disc assembly in valve HV243F020
273A II	V73783 V74106	Replace section of 1" pipe on ios SP-HCB-222-3 Remove and reinstall SPD-6 clip on hanger SP-HCB-227-H5017
283A I	V83894	Replace stem/disc assembly in valve 239F026F
283A II	Y70901	Add shim to hanger DBB-204-H17
283A II	V83187	Replace 1" globe valve "LSH 20112B-3RV/ LSHH 20112B-3RV"
283B III	V83741	Replace SPD-6 clips on hangers SP-HCC-236- H5018 and 5019
283E III	V83853	Blend out arc strikes on SP-HCC-231-19
293G II	V64480 V83603 V83792	Replace stem/disc assemblies in 2RV- PDT-20101C and D Repair pipe clamp on hanger MSL-200-H9 Repair pipe clamp on hanger MSL-200-H7

293G II

V83995

Rework hanger
MSL-200-H6

V83997

Rework hanger
MSL-200-H5

V84007

Replace load stud in
MSL-200-H11

SUSQUEHANNA SES RECORDS MANAGEMENT SYSTEM
TRANSMITTAL: INTERNAL SUBMITTAL OF DOCUMENTS TO SRMS

- 0: SRMS DCC-GO
 SRMS DCC-SSES
 Nuc. Dept. Library

Transmittal No.:

To be filled in by ORIGINATOR:

EFS CONSTRUCTION
 Dept. of Origin

8/30/88
 Date

Document Status (Attach access limitations as necessary):

- Confidential Security
 QA Record

UNIQUE ID	TITLE/DESCRIPTION	REV.	CROSS REFERENCE	FILE NO.	BEGINNING & ENDING NUMBERS, SERIES, DATES, ETC
225AIII	FORM NIS-2; OWNER'S REPAIR REPORT	N/A	AD-GA-522	R-7-4	8-26-88
234K II	}	}	}	}	}
245A I					
249A II					
249B II					
249G I					
250B I					
250B II					
251A I					
252A II					
252B II					
253A I					
253A II					
254A III					
261A III					
261B II					
262A I					

Distribution by SRMS DCC YES NO
 (If YES, attach distribution list.)

The contents transmitted have been prepared and reviewed in accordance with the requirements of SRMS Procedure P 1.0, Document Submittals.

Klook

Originator's Signature

x 3693

8-26-88

Phone Ext.

To be filled in by SRMS DCC:

Transmittal: Approved Rejected

Reason:

SRMS DCC Signature

Date

(White Copy - File; Yellow Copy - Returned to Originator; Green Copy - Retained by Originator)

SUSQUEHANNA SES RECORDS MANAGEMENT SYSTEM
TRANSMITTAL: INTERNAL SUBMITTAL OF DOCUMENTS TO SRMS

- 0: SRMS DCC-GO
 SRMS DCC-SSSES
 Nuc. Dept. Library

Transmittal No.:

To be filled in by ORIGINATOR:

EIS CONSTRUCTION
 Dept. of Origin

8/30/88
 Date

Document Status (Attach access limitations as necessary):

- Confidential Security
 QA Record

UNIQUE ID	TITLE/DESCRIPTION	REV.	CROSS REFERENCE	FILE NO.	BEGINNING & ENDING NUMBERS, SERIES, DATES, ETC
264A I	FORM NIS-2; OWNER'S REPAIR REPORT	N/A	AD-QA-522	R-7-4	8-26-88
264B I	}	}	}	}	}
273A II					
283A I					
283A II					
283B III					
283E III					
293G II					

Distribution by SRMS DCC YES NO
 (If YES, attach distribution list.)

The contents transmitted have been prepared and reviewed in accordance with the requirements of SRMS Procedure P 1.0, Document Submittals.

Klood

Originator's Signature

3098

Phone Ext.

To be filled in by SRMS DCC:

Transmittal: Approved Rejected Reason:

SRMS DCC Signature

Date

(White Copy - File; Yellow Copy - Returned to Originator; Green Copy - Retained by Originator)

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address SEE SHEET 2
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System PRIMARY CONTAINMENT INSTRUMENT GAS (SYSTEM 225A, CLASS 3)
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter '72, Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	15334	N/A	2-26-015	1976	REPAIRED	YES
BODY OF							
② SOLENOID VALVE	TARGET ROCK	75KK-401-2	N/A	PCV 22643	1979	REPLACED	YES
BODY OF							
③ SOLENOID VALVE	TARGET ROCK	75KK-401-5	N/A	PCV 22643	1984	REPLACEMENT	YES
④ MAIN DISC	TARGET ROCK	N/A	N/A	SV 22643	1981	REPLACED	NO
⑤ MAIN DISC	TARGET ROCK	216	N/A	SV 22643	1984	REPLACEMENT	NO

7. Description of Work SEE SHEET 2
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 EXEMPT (1" UNDER)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED DATA REPORTS.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed *J. Blakesley* Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 15 1988 to JUL 21 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers II Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

FORM N-3 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PARTS AND APPURTENANCES
 As Prepared by the Provisions of the ASME Code Rules, Section III, Div. 1

1. Manufactured by LAUREL LOCK CORPORATION 1518 Broadhollow Rd. E. Farmingdale, N.Y. 11735
 (Name and address of NPT Certificate Holder)
 Manufactured at Pennsylvania Forge and Pipe Co., P.O. Box 100, Pottsville, Pennsylvania 17854
 (Name and address of Manufacturer)
 Designation ASME SECTION III, DIVISION 1, SUBSECTION 3000, PART 1, UG-110
 (ASME Code Reference)
 Part No. 2145-215-216-217-218-219
 (Part Number)

2. LAUREL LOCK CORPORATION
 (Name of NPT Certificate Holder)
 3. LAUREL LOCK CORPORATION
 (Name of Manufacturer)
 4. LAUREL LOCK CORPORATION
 (Name of Manufacturer)
 5. LAUREL LOCK CORPORATION
 (Name of Manufacturer)
 6. LAUREL LOCK CORPORATION
 (Name of Manufacturer)
 7. LAUREL LOCK CORPORATION
 (Name of Manufacturer)
 8. LAUREL LOCK CORPORATION
 (Name of Manufacturer)

9. Tube Sheet Stationary: Material SA-516-70
 (Material, Spec. No., T.S., Size, Number)
 10. Tube Material SA-516-70
 (Material, Spec. No., T.S., Size, Number)
 11. Shell Material SA-516-70
 (Material, Spec. No., T.S., Size, Number)
 12. Seams: Long H.T. R.T. Efficiency 100%
 (Type of Seam, Heat Treatment, Efficiency)
 13. Head: (a) Material SA-516-70 (b) Material SA-516-70
 (Material, Spec. No., T.S., Size, Number)
 (c) Material SA-516-70
 (Material, Spec. No., T.S., Size, Number)
 (d) Material SA-516-70
 (Material, Spec. No., T.S., Size, Number)
 (e) Top, bottom, ends
 (f) Channel
 If removable, bolts used (a) (b) (c) Other fastening (Describe or sketch)

14. (a) Design Pressure 150 psi (b) Min. Pressure-Test Temp. 150 °F
 (Design Pressure, Min. Pressure-Test Temp.)
 15. NEW YORK STATE COMMISSION AND 5288
 (Name of NPT Certificate Holder)

B 5031

¹ If bolted, heat-treated. ² List other internal or external pressures with coincident temperatures when applicable.
³ Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 in. x 11 in.; (2) information in items 1 and 2 of this Data Report is included on each sheet; and (3) each sheet is numbered and number of sheets is recorded in item 3, Remarks.

11/2/80

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

No. 84-243
 RECORD PACKAGE
 PAGE 22 OF 96

Certificate of Design for Apparatus (when applicable)
 Date: Jan 20 1984
 Signed: TABLET ROCK CORP.
 NPT Certificate Holder: TABLET ROCK CORP.
 Certificate of Authorization No. 1945
 Inspector: W. J. ADUERO, Mgr. of Quality
 Date of Authorization: 12/9/80

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at: TABLET ROCK CORPORATION
 (Address refers to address 1) (Address refer to address 2)
 Stress analysis report on file at: _____
 (Address refer to address 1) (Address refer to address 2)
 Design specifications certified by: Lawrence S. Logan Prof. Eng. Reg. No. 19675E
 Stress analysis report certified by: _____ Prof. Eng. Reg. No. _____

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 1/20 1984 and deem that, in the best of my knowledge and belief, the NPT Certificate Holder has complied with the ASME Code, Section III, and that, by signing this certificate, neither the Inspector nor his employer make 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 by a loss of any kind arising from or connected with this inspection.

One William C. Heland 1984 - T-1
 Inspector's Signature
 NEW YORK STATE COMMISSION NO. 2288
 ALSO COMMISSIONED BY: Fire, Gas & Com.
 National Board, State, Province and No.

No. 8130
 RECORD PACKAGE
 PAGE 23 OF 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. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 WA V83542; C88-234-090
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR BLDG. CHILLED WATER (SYSTEM 234K, CLASS 2)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PACIFIC	0329-6	N/A	HV28791A2	1976	REPAIRED	YES

7. Description of Work MACHINE DISC IN VALVE HV 28791A2
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure ASME SECTION XI
 Other Pressure 46 psi Test Temp. 76 °F
LLRT SE-259-063

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

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/
~~replacement~~

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 None

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

Signed [Signature] Date August 26 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 18 1988 to MAY 3 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 3
Name
Berwick, PA 18603
Address Unit 2
SEE SHEET 3
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System MAIN TURBINE (SYSTEM 293G, CLASS 2)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
(2) (4) (1) (3) ASME SEC. III 1971, W'73; (1) (3) ASME SEC. III 1974, W'74.
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
① STEM/DISC ASSY	YARWAY	N/A	N/A	ZRY-PDT-20101C	1976	REPLACED	No
② STEM/DISC ASSY	YARWAY	BB-219	N/A	ZRY-PDT-20101C	1983	REPLACEMENT	No
③ STEM/DISC ASSY	YARWAY	N/A	N/A	ZRY-PDT-20101D	1976	REPLACED	No
④ STEM/DISC ASSY	YARWAY	BB-235	N/A	ZRY-PDT-20101D	1983	REPLACEMENT	No
⑤ LARGE PIPE HANGER	BECHTEL	N/A	N/A	MSL-200-H9	1983	REPAIRED	No

7. Description of Work SEE SHEET 3
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure N/A psi Test Temp. N/A °F
 EXEMPT (1" UNDER)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED NPV-1 DATA REPORTS FOR VALVES USED FOR
Applicable Manufacturer's Data Reports to be attached
REPLACEMENT PARTS.

CERTIFICATE OF COMPLIANCE repair/
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 None

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

Signed Wc Jo. Blakeslee Jr. Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arlwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 14 1988 to JUL 5 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Poggen Commissions IB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

1. Owner Pennsylvania Power & Light Co.
Name

Date August 26, 1988

Two N. 9th Street, Allentown, PA 18101
Address

Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

SEE SHEET 3
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th Street, Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification MAIN TURBINE (SYSTEM 2934, CLASS 2)

5. ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
of Applic. XI Utilized for Repairs or Replacements 19 80, Winter '81

Ident. by Repaired or Replaced and Replacement Components

Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
⑥ LARGE PIPE HANGER	BECHTEL	N/A	N/A	MSL-200-H7	1983	REPAIRED	No
⑦ LARGE PIPE HANGER	PPIL	N/A	N/A	MSL-200-H6	1988	REPAIRED	No
⑧ LARGE PIPE HANGER	PPIL	N/A	N/A	MSL-200-H5	1988	REPAIRED	No
⑨ LOAD STUD	ITTGRINNELL	N/A	N/A	MSL-200-H11	1983	REPLACED	No
⑩ LOAD STUD	ITTGRINNELL	N/A	N/A	MSL-200-H11	1983	REPLACED	No

039

Item No.	Description	Material Spec. No.	Manufacturer	Remarks
(1) Bushing	NONE			
(4) Other Parts	3886	SA182 F8A CL 2	PETER A. FRASSE CO.	BACKSEAT BUSHING

2. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file as CONSUMERS POWER COMPANY
 Stress analysis report on file as NOT REQUIRED
 Design specifications certified by _____ (1) Prof. Eng. Exam _____ Exp. No. _____
 Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. Exam _____ Exp. No. _____
 (1) Signatures are required. List name only. *MICHAEL O. BOTHWELL, NICH. 20451
 THEODORE W. VANVICK, NICH. 22285
 RONALD W. BOMBY, NICH. 17028
 We certify that the information on file in this report are correct.
 Conditions of Authority: License No. 11417 Expires 12/31/1983

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid examination issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PRIMA MFG. MUTUAL INS. CO of NORWOOD, MA have inspected the equipment described in this Data Report on 7/29 1983 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*FACTORY MUTUAL SYSTEM

Date 7/29 19 83

Walter S. ...
 (Inspector)

Commission NO 6344 P 2058
 (National Board, State, Province and Dist)

87-1281
 RECORD PACKAGE
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BECHTEL
 833
 7000-N-127-66 2/16
 DCN #180
 PS 10A 0811

8 of 13
 NCR 88-1356

011110

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	Work No.	Material Spec. No.	Manufacturer	Remarks
(4) Bolting	NONE			
(4) Other Parts	3986	SA182 F8A CL 2	PETER A. FRASSE CO.	BACKSEAT BUSHING

5. Hydrostatic test 5400 psi.

07 74211011

CERTIFICATION OF DESIGN

Design information on file at CONSUMERS POWER COMPANY
 Source analysis report on file at NOT REQUIRED
 Design specifications certified by _____ (1) Prof. Eng. Name _____ Eng. No. _____
 Source analysis report certified by NOT REQUIRED (2) Prof. Eng. Name _____ Eng. No. _____
 (1) Signature not required. List name only. *NICHAELE O. ROTWELL MICH. 20451
THEODORE W. VANVICK MICH. 22285
 Or certify date and professional title in this report for example: RONALD V. ZORNY MICH. 17926

[Signature]
 Civil License of Authorization No. W2449 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 PHILA MFD. MUTUAL INS CO of MORWOOD, PA have inspected the equipment described in this Data Report on 7/29 M.F.I. and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

***FACTORY MUTUAL SYSTEM**

Date 7/29 W. 83

Walter S. H. H. H. Commission No. 6344 2056
 (Inspector) (National Board, State, Province and Dist.)

87215804
 RECORD PACKAGE
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BECHTEL
 633

7280-N-127-CC 4/16
 DCN #18.0
 PO 11A 0P 11

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 NCR 801356

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
Berwick, PA 18603 Unit 2
Address WA 483504; C88-245-077
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System FEEDWATER (SYSTEM 245A, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check VALVE	ANCHOR DARLING	E5820-3-3	N/A	241F010A	1976	REPAIRED	YES

7. Description of Work BODY OF ~~DISC~~ VALVE 241F010A TO OBTAIN ACCEPTABLE BODY-TO-DISC CLEARANCES.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1005^{±5} psi Test Temp. 185 °F
 OPS HYDRO SE-200-002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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

Type Code Symbol Stamp None

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

Signed [Signature] Date August 26, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penn and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 12 1988 to APR 25 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988
Sheet 1 of 1

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

Unit 2
V83531; C88-249-049
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System RESIDUAL HEAT REMOVAL (SYSTEM 249A, CLASS 2)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>SHOP WELD ON PIPE SPOOL</u>	<u>IIT GRINNELL</u>	<u>N/A</u>	<u>N/A</u>	<u>GBB-204-4281775</u>		<u>REPAIRED</u>	<u>YES</u>

7. Description of Work BLEND ISI SURFACE INDICATION ON SPOOL GBB-204-4-2.
(WELD *GBB-204-4-2B)

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

NOTE: Supplier vital sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blokesch Date August 26, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 26 1988 to APR 7 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name ① WA V83145; C86-249-057 & 058
Berwick, PA 13603 ② WA V83532; C88-249-051
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System RESIDUAL HEAT REMOVAL (SYSTEM 249B, CLASS 2)
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 "B" RHR HT. EXCH.	M.L.W. INDUSTR.	10641-Q	124	ZE205B	1976	REPAIRED	YES
① BOLTING	M.L.W. Indust.	10639-Q	122	ZE205A	1976	Replaced	Yes
① BOLTING	M.L.W. Indust.	10639-Q	122	ZE205A	1976	Replaced	Yes
① "A" RHR HT. Exch.	M.L.W. Indust.	10639-Q	122	ZE205A	1976	Repaired	Yes

① Replace Bolting and REPAIR GALLED SURFACE ON "A" RHR HT. EXCHANGER.
 7. Description of Work ② REPAIR ISI INDICATION ON "B" RHR HEAT EXCHANGER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 (1, 2) Other Pressure 235 psi Test Temp. 78 °F For item ①
NMPT-Y SE-249-301
VT-88-559

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blahusky Date August 26 19 88
 Owner or Owner's Designee, Title: Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 28 1989 to APR 18 1989 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguette Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name ① V83632; C88-249-087
Berwick, PA 18603 ② V74060; C88-249-044 & .052
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System RESIDUAL HEAT REMOVAL (SYSTEM 249G, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 ^{WELD ON} SPOOL PIECE	ITT GRINDILL	N/A	N/A	DCA-210-1-1A	1978	REPAIRED	YES
② DISC	WOOD-MORILL	4-204	N/A	HV-E11-2F050B	1975	REPAIRED	YES

① BLEND ISI INDICATIONS ON SPOT DCA-210-1-1A
 7. Description of Work MACHINE DISC IN HV-E11-2F050B

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1005 ± 5 psi Test Temp. 185 °F
 OPS HYDRO PER SE-200-002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blakesley Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Vermont, employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 15 1988 to APR 17 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers Commissions NB7980 PA2204 NIBS I-3
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 WA V64762; C88-250-048
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR CORE ISOLATION COILING (SYSTEM 250B, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter '72-75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEM/PLUG ASSY	MASONJEILAN	N/A	N/A	HY249F088	1978	REPLACED	No
STEM/PLUG ASSY	MASONJEILAN	SN N00186-522 (1810-3- 1065-11)	N/A	HY249F088	1986	REPLACEMENT	No

7. Description of Work REPLACE STEM/PLUG ASSEMBLY IN HY249F088.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1005 ± 10 psi Test Temp. 185 °F
OPS HYDRO PER SE-200-002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED N-2 DATA REPORT FOR REPLACEMENT MATERIAL
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed *J. Blakeslee* Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penn and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 22 1988 to APR 1 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

* corrected copy

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

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Masonellan-Dresser Industries, 85 Bodwell St., Avon, Ma. 02322
(Name and address of Manufacturer of part)

(b) Manufactured by Power & Light, 2 North Ninth St., Allentown, Pa. 18101
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part N00186-522 Nat'l Bd. No. NA

(a) Constructed According to Drawing No. P10873 Drawing Prepared by Masonellan

(b) Description of Part Inspected 1" Plug s/a p/n 013431-135-1L2 Heat No. 1810-3-1065-11 thru 16

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W1975, Case No. NA Class 1

3. Remarks: Replacement for Masonellan valve serial no.s N00186-5, -6, -7, -8, -9, -10, -12, -14, 3-15
(Brief description of service for which component was designed)

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

Date March 12 19 86 signed Masonellan-Dresser By [Signature]
(Manufacturer)

Certificate of Authorization Expires 8-19-86 Certificate of Authorization No. N-1837

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Masonellan-Dresser Industries

Stress analysis report on file at Masonellan-Dresser Industries

Design specifications certified by Sidney A. Copland Prof. Eng. State Pa. Reg. No. 19877-E

Stress analysis report certified by Gerald W. Austin Prof. Eng. State Ma. Reg. No. 28243

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Ma. and employed by H.S.B.I. Co. of Hartford, Ct. have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on November 15 1986, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date March 12 19 86

[Signature] Inspector's Signature Commission Mass 871 Pa WC2846 National Board, State, Province and No.

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

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 V83615 ; C88-250-084
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR CORE ISOLATION COOLING (SYSTEM 250B, CLASS 2)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>LARGE PIPE SUPPORT</u>	<u>Bechtel</u>	<u>N/A</u>	<u>N/A</u>	<u>HBB-201-H7</u>	<u>1983</u>	<u>Repaired</u>	<u>NO</u>

7. Description of Work REPAIR ISI DEFECT IN HANGER HBB-201-H7
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed KE J. Blakeslee Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penn and employed by Arkwright Mutual Insurance Company at Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 16 1988 to APR 26 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pigeon III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address 164764; C88-251-047
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System CORE SPRAY (SYSTEM 251A, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter '72 ⁷⁵ KL 4/25/88 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEM/DISC ASSY	MASONELAN	N/A	N/A	HV252F037B	1978	REPLACED	No
STEM/DISC ASSY	MASONELAN	NOV86-522 (1810-3-1065-13)	N/A	HV252F037B	1986	REPLACEMENT	No

7. Description of Work REPLACE STEM/DISC ASSEMBLY IN VALVE HV 252F037B.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1005 ± 8 psi Test Temp. 185 °F
OPS HYDRO PER SE-200-002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED N-2 DATA REPORT FOR REPLACEMENT STEM/
Applicable Manufacturer's Data Reports to be attached
DISC ASSEMBLY.

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed [Signature] Date August 26 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF IN-SERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 21 1988 to MAY 9 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogness Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG 31 19 88

* corrected copy

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

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Masonellan-Dresser Industries, 85 Bodwell St., Avon, Ma. 02322
(Name and address of Manufacturer of part)
- (b) Manufactured by Power & Light, 2 North Ninth St., Allentown, Pa. 18101
(Name and address of Manufacturer of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part N00186-522 Nat'l Bd. No. NA
- (a) Constructed According to Drawing No. P10873 Drawing Prepared by Masonellan
- (b) Description of Part Inspected 1" Plug s/a p/n 013431-135-1L2 Heat No. 1810-3-1065-11 thru 16
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W1975, Case No. NA Class 1
3. Remarks: Replacement for Masonellan valve serial no.s N00186-5, -6, -7, -8, -9, -10, -12, -14, 8-15
(Brief description of service for which component was designed)

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

Date March 12 1986 signed Masonellan-Dresser By [Signature]
(Manufacturer)

Certificate of Authorization Expires 8-19-86 Certificate of Authorization No. N-1837

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Masonellan-Dresser Industries

Stress analysis report on file at Masonellan-Dresser Industries

Design specifications certified by Sidney A. Copland Prof. Eng. State Pa. Reg. No. 19877-E

Stress analysis report certified by Gerald W. Austin Prof. Eng. State Ma. Reg. No. 28243

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Ma. and employed by H.S.B.I. Co. of Hartford, Ct. have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on November 18 1986 and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date March 12 1986

[Signature] Inspector's Signature Commission Mass 871 Pa WC2846 National Board, State, Province and No.

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

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address

2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
Berwick, PA 18603
Address

3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name Type Code Symbol Stamp N/A
Two N. 9th Street, Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System HIGH PRESSURE COOLANT INJECTION (SYSTEM: 252A, CLASS 2)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 SHIPWELD ON PIPE SPOOL	ITT GRINWELL	N/A	N/A	DBB-220-1-3D	1976	REPAIRED	YES
② LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBB-212-H4	1983	REPAIRED	NO

7. Description of Work BLEND TWO EST INDICATIONS ON ^{WELD} ~~SPOT~~ DBB-220-1-3D.
 ADD SHIMS TO HANGER DBB-212-H4.

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blodgett Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Walsham, Mass. have inspected the components described in this Owner's Report during the period APR 28 1988 to MAY 23 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Address
Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 Address
① V83599 ; C88-252-089
② V83659 ; C88-252-138 4-145
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th Street, Allentown, PA 18101 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System High Pressure Coolant Injection (SYSTEM 252B, CLASS 2)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A / ① / ② Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

	Name of 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	FIG 66	BECHTEL	N/A	N/A	DBB 214-H24	1983	REPLACED	NO
①	FIG 66	ITTGRIMMELL	N/A	N/A	DBB 214-H24	1988	Replacement	NO
②	Level Switch*	GE	N/A	N/A	E41-2N014	1983	REPLACED	NO
③	Level Switch*	GE	884250	N/A	E41-2N014	1984	Replacement*	NO
②	Level Chamber* Half-Coupling	GE	884250	N/A	E41-2N014	1984	REPAIRED	NO

7. Description of Work ① Replace FIG 66 on hanger DBB-214-H24
② Replace level chamber LSH-E41-2N014 + blind surface indication.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 970 psi Test Temp. — °F
Form 480 * 413, DURING 50-252-002

* LSH-E41-2N014 IS AN INSTRUMENT, AND IS NOT A SECTION III CODE STAMPED COMPONENT.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Code Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed JK J. Bleher Date August 26, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penn and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 19 1988 to JUN 17 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogent Commissions NB7980 PA2204 NIBS IS
Inspector Signature National Board, State, Province, and Endorsements

Date Aug. 31, 1988

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address V83494, C88-253-043
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System STANDBY LIQUID CONTROL (SYSTEM 253A, CLASS I)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BACKSEAT AND BACKSEAT BUSHING	YARWAY	VALVE S/N A0077	NA	HV248F006	1977	REPAIRED	No

7. Description of Work REWORK BACKSEAT ON STEM AND BACKSEAT BUSHING ON HV248F006. (1 1/2" φ)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1275 psi Test Temp. 72 °F
VT-2; VT-88-413

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed KE J. Blakeslee Date August 26, 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penn and employed by Arlowright Mutual Insurance Company of Walcham, Mass. have inspected the components described in this Owner's Report during the period MAR 17 1988 to APR 12 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date AUG 31, 1988

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 3
Name
Berwick, PA 18633
Address Unit 2
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System STANDBY LIQUID CONTROL (SYSTEM 253A, CLASS 2)
Repair Organization P.O. No., Job No., etc. SEE PAGE 3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (4) 1" STUB BOLTS	—	—	N/A	SP-DCB-201-7	—	REPLACED	No
② (4) 1" STUB BOLTS	CARDINAL	HT. NO. 04617	N/A	SP-DCB-201-7	1985	REPLACEMENT	No
③ (4) 1" STUB BOLTS	—	—	N/A	SP-DCB-201-6	—	REPLACED	No
④ (4) 1" STUB BOLTS	CARDINAL	HT. NO. 04617	N/A	SP-DCB-201-6	1985	REPLACEMENT	No
⑤ GATE VALVE DOC	IJALWORTH	VALVE SN A1330	VALVE 601	248 F031	1976	REPLACED	No

7. Description of Work SEE SHEET 3
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1280 psi Test Temp. 72 °F
VT 2 PER VT-88-432

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 ATTACHED P/R REPLACED DISC

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed ve J. Blakeslee Date August 26 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Ariowright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 7 1988 to APR 13 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William E. Rogers III Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31 19 88

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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

Sheet 2 of 3

Unit 2

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System STANDBY LIQUID CONTROL (SYSTEM 253A, CLASS 2)

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
⑥ GATE VALVE DISC	WILHELM	(SEC) A4758	NA	248F031	1984	REPLACEMENT	No

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

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

1. (a) Manufactured by Walworth Company/Aloyco Plant, 1400 W. Elizabeth Ave., Linden NJ
(Name and address of NPT Certificate Holder) (Susquehanna Steam Elec
 (b) Manufactured by Pennsylvania Power & Light Co., 2 N 9 St., Allentown, PA
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification Certificate Holder's Serial No. of Part A4758 Nat'l Bd. No. - CRN No. -
 (a) Constructed According to Drawing No. B-54447 Rev. 0 Drawing Prepared by Walworth Company
 (b) Description of Part Inspected Disc for 3" N226-SP, 150# Gate Valve
 (c) ASME Code: Section III, Edition 1971; Addenda date W-1972; Case No. N/A Class 2

3. Remarks Borated Water
(Brief description of service for which component was designed.)
Heat and Serial Number stamped on part are used for traceability to
this data report.

Heat No. 3823B

Items 4-8 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material - T.S. - Nom. Thk. - in. Corr. Allow. - in. Diam. - ft. - in. Length - ft. - in.
(Kind & Spec. No.) (Min. of range specified)

5. Seams: Long - H.T.¹ - R.T. - Efficiency - %
 Girth - H.T.¹ - R.T. - No. of Courses -

6. Heads: (a) Material - T.S. - (b) Material - T.S. -
 Location (top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diam. Side to Pressure (convex or concave)

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

If removable, bolts used - Other fastening -
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure -
(Describe as gage and weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch)

8. (a) Design Pressure¹ - psi at - °F (b) Min. Pressure-Test Temp. - °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary: Material - Diam. - in. Thk. - in. Attachment -
(Kind & Spec. No.) (Subject to pres.) (Welded, bolted)

Floating: Material - Diam. - in. Thk. - in. Attachment -

10. Tubes: Material - O.D. - in. Thk. - in. or gage Number - Type -
(Straight or U)

Items 11-14 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

11. Shell: Material - T.S. - Nom. Thk. - in. Corr. Allow. - in. Diam. - ft. - in. Length - ft. - in.
(Kind & Spec. No.) (Min. of range specified)

12. Seams: Long - H.T.¹ - R.T. - Efficiency - %
 Girth - H.T.¹ - R.T. - No. of Courses -

13. Heads: (a) Material - T.S. - (b) Material - T.S. -
 Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diam. Side to Pressure (convex or concave)

(a) Top, bottom, ends - - - - - - - - -
 (b) Channel - - - - - - - - -

If removable, bolts used (a) - (b) - (c) - Other fastening -
(Describe or attach sketch)

14. (a) Design Pressure¹ - psi at - °F (b) Min. Pressure-Test Temp. - °F

¹ If postweld heat-treated. ² List other internal or external pressures with coincident temperature when applicable.
³ Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 in. x 11 in.; (2) information in items 1 and 2 of this Data Report is included on each sheet; and (3) each sheet is numbered and number of sheets is recorded in item 3, Remarks.

038

Items below to be completed for all vessel, where applicable.

15. Safety Valve Outlets: Number Size Location
16. Nozzles:
- | Purpose (inlet, outlet, drain) | Number | Diam. or Size | Type | Material | Thickness | Reinforcement Material | How Attached |
|--------------------------------|-------------|---------------|-------------|-------------|-------------|------------------------|--------------|
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
17. Inspection Manholes: No. Size Location
- Openings: Handholes: No. Size Location
- Threaded: No. Size Location
18. Supports: Skirt Lugs Legs Other Attached
- (Yes or no) (Number) (Number) (Describe) (Where & how)

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code, Section III.

(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 4/17, 19 84 Signed Walworth Co. / Aloyco Plant By Frank Truppo, Manager Q.A.
(NPT Certificate Holder)
 Certificate of Authorization Expires 4-7-87 Certificate of Authorization No. N-2077

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at N/A

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State N/A Reg. No. N/A

Stress analysis report certified by N/A Prof. Eng. State N/A Reg. No. N/A

CERTIFICATE OF SHCP INSPECTION

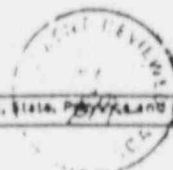
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New Jersey and employed by HSB I & I Co. of Hartford, Conn. have inspected the part of a pressure vessel described in this Partial Data Report on JUNE 22, 1984, 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 June 22, 19 84

Michael S. Michrowski
Inspector's Signature

Commissions NB9949
National Board, State, Province and No.



038

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name (1) (2) WA V64417; 87-254-001
Berwick, PA 18603 (3) (4) WA V73509; C88-254-074
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System EMERGENCY SERVICE WATER (SYSTEM 254A, CLASS 3)
5. (a) Applicable Construction Code (2) (3) ASME SEC. III 1980, Summer '81
 (1) (4) ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(1) DISC	ANCHOR DARLING	VALVE 3/N E1595-2-2	N/A	210112	1983	REPLACED	No
(2) DISC	ANCHOR DARLING	DISC 3/N 97	N/A	210112	1987	REPLACEMENT	No
(3) CHECK VALVE	ANCHOR DARLING	E3279-1-4	N/A	210109	1984	REPLACED	YES
(4) CHECK VALVE	ANCHOR DARLING	E1595-2-2	N/A	210109	1983	REPLACEMENT	YES

REFURBISH CHECK VALVE E1595-2-2 WITH NEW DISC. INSTALL E1595-2-2

7. Description of Work AS REPLACEMENT FOR VALVE 210109.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 122 psi Test Temp. 55 °F
(VT-88-443 DURING SE-254-301).

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED N-2 DATA REPORT FOR REPLACEMENT DISC. NPV-1 FOR
Applicable Manufacturer's Data Reports to be attached
REPLACEMENT VALVE IS IN N-5 FOR ORIGINAL SYSTEM 254AIII.

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed JA Blaher Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period JUL 30 1987 to APR 10 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., Allentown, PA 18101
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part S/N - 97 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C20588 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat No. 6032942 SA105

(c) Applicable ASME Code: Section III, Edition 1980, Addenda date Sum '81 Case No. N/A Class 3

3. Remarks: 4"-150#-Swing Check
(Brief description of service for which component was designed)
A/DV S.O. P-5977-1

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 3/24 1987 Signed Anchor/Darling Valve Co. by R L Starnett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/89 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 1-23-87 thru 3-24-87 1987 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 3-24 1987 870638
22 26

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

* Supplemental sheets in form of lists, sketches or drawings may be used provided: (1) they are 8 1/2" x 11"; (2) information on items 1-2 on this Data Report is included on each sheet; and (3) each sheet is numbered and number is shown in column 12 on this "Summary".

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address WA 470473 ; C88-261-040
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR WATER CLEANUP (SYSTEM 261A, CLASS 3)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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-201-H11	1983	REPAIRED	No

7. Description of Work ADD SHIM TO HANGER DBC-201-H11.
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blakeslee Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAR 14 1988 to APR 27 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Zugest Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR WATER CLEANUP (SYSTEM 261B, CLASS 3)
① ASME SEC III 1974 ED, WINTER '74 ADDENDA
② ASME III 1971 Edition, Winter '73 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81
5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81

WA V83013; C88-261-086
Repair Organization P.O. No., Job No., etc.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEM/DISC ASSY.	YARWAY	VALVE S/N A0370	N/A	244813	1977	REPLACED	YES
STEM/DISC ASSY.	YARWAY	VALVE S/N. 88193	N/A	244813	1983	REPLACEMENT	YES

7. Description of Work REPLACE STEM/DISC ASSEMBLY IN VENT VALVE 244-813 USING PARTS FROM STOCK VALUE.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 920 psi Test Temp. - °F
Form 490 No. 393

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED NPV-1 FOR VALVE USED FOR SPARE PARTS.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed W. J. Blakeslee Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 16 1988 to APR 22 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

FORM NPS-1 MANUFACTURERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

P.O. #40883

1. Manufactured by YARWAY CORPORATION, BLUE HELL, PA 19429 Order No. 82837
(Name & Address of Manufacturer)
2. Manufactured for BECHTEL POWER CORP. Order No. 7220-N-127-CC
(Name and Address)
3. Owner CONSUMERS POWER CO.
4. Location of Plant MIDLAND, MI
5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE 1"
 SERIAL NUMBER(S) B8180 1SRU B8204
(Brief description of service for which equipment was designed)
- (a) Drawing No. 045787 A Prepared by YARWAY CORPORATION
- (b) National Brand No. N/A
6. Design Conditions ---- psi ---- °F or Pressure Class 1500 (1)
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
 Edition 1971, Addenda Date WINTER, '73, Code No. ----

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	D7	AMS 5385K	NOVA/BONNETT CORPORATION	DISC
(b) Forgings	N5	SA 105	CAPE ANN TOOL COMPANY	BODY

(1) For manually operated valves only
 *Supplemental charts or form of lists, sketches or drawings may be used provided (1) such is 24" x 36", (2) supplement is made, 1, 2, 3, 4 and 5 on the left side report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of each form.

080

FORM NYP-1 (book)

Part No.	Material Spec. No.	Manufacturer	Remarks
(1) Bearing	NONE		
(4) Other Parts	3886	SA182 F8A CL 2	PETER A. FRASSE CO. BACKSEAT BUSHING

8 Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at CONSUMERS POWER COMPANY

Stress analysis report on file at NOT REQUIRED

Design specifications certified by _____ (I) Prof. Eng. Issue _____ Eng. No. _____

Stress analysis report certified by NOT REQUIRED (II) Prof. Eng. Issue _____ Eng. No. _____

(II) Signature not required. List name only. *MICHAEL O. ROTHWELL MICH. 20451
 THEODORE W. VANVICK MICH. 22285
 RONALD W. ZORNEY MICH. 17926

Be certain that the statements made in this report are correct.

Date 7/29 1983 Signed YARWAY CORPORATION by W. A. VOJGER
(Manufacturer) W. A. VOJGER

Certificate of Authorization No. N2449 expires NOVEMBER 14, 1983

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and in the State of Province of PENNSYLVANIA and employed by PHILIA MFG. MUTUAL INS. CO of NORWOOD, MA have inspected the equipment described in this Data Report on 7/15 1983 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

*FACTORY MUTUAL SYSTEM

Date 7/29 1983

Wanda Sudd Hendt Commission N2449 29 2956
(Inspector) (National Board, State, Province and No.)

7228 H-127-CC 2/16
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 833
 820-18.0
 PS 9A 08 11

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 32
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 SEE SHEETS 19 thru 31
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR VESSEL AND AUXILIARIES (SYSTEM 262A, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 71 Edition Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

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

7. Description of Work SEE SHEETS 19 thru 31
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1005^{psig}-8 psi Test Temp. 185 °F
SE-200-002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks APPLICABLE NPV-1 AND N-2 ATTACHED. N-2'S FOR REPLACEMENT

Applicable Manufacturer's Data Reports to be attached

CRD'S ARE ON FILE IN N-5 1-62A-I AND 2-62A-I.

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed *J. A. Blakerley* Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period JAN 26 1988 to JUN 16 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogerson Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 31, 19 88

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988
 Sheet 2 of 32

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

Unit 2
see sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System Reactor Vessel and Auxiliaries (SYSTEM 262A, CLASS 1)

5. (a) Applicable Construction Code ASME III 19 71 Edition, W' 72 except ITEM 4 which is ASME III 1968 Ed, Summ. 15 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

ITEM No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1.	Carbon Steel Shim	N/A	N/A	N/A	MST-222-H36	-	Replacement	NO
2.	Small Pipe Support	Bechtel	N/A	N/A	SP-DBA-212-42656	1983	Repaired	NO
3.	Small Pipe Support	Bechtel	N/A	N/A	SP-DBA-212-42656	1983	Repaired	NO
4.	Reactor Nozzle	CB&I	B5024	3687	25401 NIA	1977	REPAIRED	Yes
5.	Control Rod Drive	G.E.	A5621	N/A	CRD 54-15	¹⁹⁸¹ 1974	Replaced	Y
6.	Control Rod Drive	G.E.	A4060	N/A	CRD 5415	1981	Replacement	Y
7.	Control Rod Drive	G.E.	A5600	N/A	CRD 4655	1981	Replaced	Y
8.	Control Rod Drive	G.E.	8282	N/A	CRD 4655	1978	Replacement	Y
9.	Control Rod Drive	G.E.	5672	N/A	CRD 4631	1974	Replaced	Y
10.	Control Rod Drive	G.E.	7559A	N/A	CRD 4631	1978	Replacement	Y
11.	Control Rod Drive	G.E.	A4487	N/A	CRD 4227	1981	Replaced	Y
12.	Control Rod Drive	G.E.	A4529	N/A	CRD 4327	1981	Replacement	Y
13.	Control Rod Drive	G.E.	A4174	N/A	CRD 3459	1981	Replaced	Y
14.	Control Rod Drive	G.E.	9518	N/A	CRD 3459	1978	Replacement	Y
15.	Control Rod Drive	G.E.	A4660	N/A	CRD 3431	1981	Replaced	Y
16.	Control Rod Drive	G.E.	9532	N/A	CRD 3431	1978	Replacement	Y

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address
SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System _____
5. (a) Applicable Construction Code ASME III 19 71 Edition, W '72 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Required or Replaced and Replacement Components

ITEM No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
17.	Control Rod Drive	G.E.	A4294	N/A	CRD 3039	1981	Replaced	Y
18.	Control Rod Drive	G.E.	A4707	N/A	CRD 3039	1981	Replacement	Y
19.	Control Rod Drive	G.E.	A4027	N/A	CRD 2639	1981	Replaced	Y
20.	Control Rod Drive	G.E.	A5500	N/A	CRD 2639	1981	Replacement	Y
21.	Control Rod Drive	G.E.	A4591	N/A	CRD ²⁶⁰³ 2619	1981	Replaced	Y
22.	Control Rod Drive	G.E.	A4540	N/A	CRD ²⁶⁰³ 2619	1981	Replacement	Y
23.	Control Rod Drive	G.E.	A2105	N/A	CRD 3055	1981	Replaced	Y
24.	Control Rod Drive	G.E.	A5599	N/A	CRD 3055	1981	Replacement	Y
25.	Control Rod Drive	G.E.	A4238	N/A	CRD 2203	1981	Replaced	Y
26.	Control Rod Drive	G.E.	A4258	N/A	CRD 2203	1981	Replacement	Y
27.	Control Rod Drive	G.E.	A4547	N/A	CRD 0231	1981	Replaced	Y
28.	Control Rod Drive	G.E.	A4220	N/A	CRD 0231	1981	Replacement	Y
29.	Control Rod Drive	G.E.	A3851	N/A	CRD 3811	1981	Replaced	Y
30.	Control Rod Drive	G.E.	A4415	N/A	CRD 3811	1981	Replacement	Y
31.	Control Rod Drive	G.E.	A4615	N/A	CRD 4243	1981	Replaced	Y
32.	Control Rod Drive	G.E.	17739	N/A	CRD 4243	1978	Replacement	Y

1. Owner Pennsylvania Power & Light Co.
Name

Date August 26, 1988

Two N. 9th Street, Allentown, PA 18101
Address

Sheet B4 of 32
Drawings

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

see sheets 19 thru 31

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

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th Street, Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
33.	Control Rod Drive	G.E.	A4477	N/A	CRD 3415	1981	Replaced	Y
34.	Control Rod Drive	G.E.	A4541	N/A	CRD 3415	1981	Replacement	Y
35.	Control Rod Drive	G.E.	A4499	N/A	CRD 2627	1981	Replaced	Y
36.	Control Rod Drive	G.E.	A4571	N/A	CRD 2627	1981	Replacement	Y
37.	Control Rod Drive	G.E.	A2563	N/A	CRD 1859	1981	Replaced	Y
38.	Control Rod Drive	G.E.	A4518	N/A	CRD 1859	1981	Replacement	Y
39.	Control Rod Drive	G.E.	A3814	N/A	CRD 1419	1981	Replaced	Y
40.	Control Rod Drive	G.E.	A4436	N/A	CRD 1419	1981	Replacement	Y
41.	Control Rod Drive	G.E.	A4705	N/A	CRD 1015	1981	Replaced	Y
42.	Control Rod Drive	G.E.	8484	N/A	CRD 1015	1978	Replacement	Y
43.	Control Rod Drive	G.E.	A5132	N/A	CRD 4251	1981	Replaced	Y
44.	Control Rod Drive	G.E.	9487	N/A	CRD 4251	1978	Replacement	Y
45.	Control Rod Drive	G.E.	A5595	N/A	CRD 5019	1981	Replaced	Y
46.	Control Rod Drive	G.E.	A3982	N/A	CRD 5019	1981	Replacement	Y
47.	Control Rod Drive	G.E.	A3533	N/A	CRD 5027	1981	Replaced	Y
48.	Control Rod Drive	G.E.	A3823	N/A	CRD 5027	1981	Replacement	Y

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 6 of 32

Unit 2

See sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition Summer '77 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

ITEM NO	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
53.	CRD Flange Bolts	G.E.	HT. No. CD 5N842	N/A	CRD 02-43	1981	Replacement	No
54.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 02-19	1981	Replacement	No
55.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 06-39	1981	Replacement	No
56.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 06-19	1981	Replacement	No
57.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 14-07	1981	Replacement	No
58.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 18-55	1981	Replacement	No
59.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 18-43	1981	Replacement	No
60.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 18-23	1981	Replacement	No
61.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 18-07	1981	Replacement	No
62.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 22-59	1981	Replacement	No
63.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 22-39	1981	Replacement	No
64.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 22-27	1981	Replacement	No
65.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 34- 27 ⁵⁹	1981	Replacement	No
66.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 34-27	1981	Replacement	No
67.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 38-59	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988
 Sheet 07 of 32
No. of Sheets

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

Unit 2
see sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System _____
 5. (a) Applicable Construction Code ASME III 19 77 Edition, SUMMER '77 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
68.	CRD Flange Bolts	G.E.	HT. & CD 5N842	N/A	CRD 38-43	1981	Replacement	No
69.	CRD Flange Bolts	G.E.	HT & CD 5N842	N/A	CRD 38-23	1981	Replacement	No
70.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 38-03	1981	Replacement	No
71.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 42-55	1981	Replacement	No
72.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 42-07	1981	Replacement	No
73.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 54-43	1981	Replacement	No
74.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 54-23	1981	Replacement	No
75.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 58-39	1981	Replacement	No
76.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 58-23	1981	Replacement	No
77.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 02-23	1981	Replacement	No
78.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 02-35	1981	Replacement	No
79.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 06-31	1981	Replacement	No
80.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 06-35	1981	Replacement	No
81.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 06-43	1981	Replacement	No
82.	CRD Flange Bolts	G.E.	CD 5N842	N/A	CRD 10-11	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 8 of 32

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition, Summer '77 Addenda N/A Code Case _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
83.	CRD Flange Bolts	G.E.	HT.No. CD SN842	N/A	CRD 10-19	1981	Replacement	No
84.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-23	1981	Replacement	No
85.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-27	1981	Replacement	No
86.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-31	1981	Replacement	No
87.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-35	1981	Replacement	No
88.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-43	1981	Replacement	No
89.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-47	1981	Replacement	No
90.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 10-51	1981	Replacement	No
91.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-11	1981	Replacement	No
92.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-15	1981	Replacement	No
93.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-27	1981	Replacement	No
94.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-31	1981	Replacement	No
95.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-35	1981	Replacement	No
96.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-39	1981	Replacement	No
97.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-43	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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KC #18/85

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition, SUMMER '77 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
98.	CRD Flange Bolts	G.E.	HT. No CD SN842	N/A	CRD 14-47	1981	Replacement	No
99.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-51	1981	Replacement	No
100.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 14-55	1981	Replacement	No
101.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-11	1981	Replacement	No
102.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-15	1981	Replacement	No
103.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-19	1981	Replacement	No
104.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-31	1981	Replacement	No
105.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-35	1981	Replacement	No
106.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-47	1981	Replacement	No
107.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 18-51	1981	Replacement	No
108.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-11	1981	Replacement	No
109.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-7	1981	Replacement	No
110.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-15	1981	Replacement	No
111.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-23	1981	Replacement	No
112.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-31	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 10 of 32
or 3/24's

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition, SUMMER '77 Addenda N/A Code Case _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

5. Identification of Components Required or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
113.	CRD Flange Bolts	G.E.	HTNo. CD SN842	N/A	CRD 22-35	1981	Replacement	No
114.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-43	1981	Replacement	No
115.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-47	1981	Replacement	No
116.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-51	1981	Replacement	No
117.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-7	1981	Replacement	No
118.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-11	1981	Replacement	No
119.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-15	1981	Replacement	No
120.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-23	1981	Replacement	No
121.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-31	1981	Replacement	No
122.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-35	1981	Replacement	No
123.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-47	1981	Replacement	No
124.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-51	1981	Replacement	No
125.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-55	1981	Replacement	No
126.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 26-59	1981	Replacement	No
127.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-7	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.Date August 26, 1988Two N. 9th Street, Allentown, PA 18101Sheet 1811 of 32

Address

16/8/1988

2. Plant Susquehanna Steam Electric StationUnit 2Berwick, PA 18603

Address

SEE sheets 19 thru 31

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

3. Work Performed by Pennsylvania Power & Light Co.Type Code Symbol Stamp N/ATwo N. 9th Street, Allentown, PA 18101

Address

Authorization No. N/AExpiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition, Summer '77 Addenda N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped Yes or No
128.	CRD Flange Bolts	G.E.	HT.No. CD SN842	N/A	CRD 30-11	1981	Replacement	No
129.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-15	1981	Replacement	No
130.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-19	1981	Replacement	No
131.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-23	1981	Replacement	No
132.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-27	1981	Replacement	No
133.	CRD Flange Bolt	G.E.	CD SN842	N/A	CRD 30-31	1981	Replacement	No
134.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-35	1981	Replacement	No
135.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-43	1981	Replacement	No
136.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-51	1981	Replacement	No
137.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 30-59	1981	Replacement	No
138.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-3	1981	Replacement	No
139.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-7	1981	Replacement	No
140.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-11	1981	Replacement	No
141.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-19	1981	Replacement	No
142.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-23	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 12 of 32

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III '9 _____ Edition _____ Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
143.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-43	1981	Replacement	No
144.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-47	1981	Replacement	No
145.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-51	1981	Replacement	No
146.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 34-55	1981	Replacement	No
147.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-7	1981	Replacement	No
148.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-15	1981	Replacement	No
149.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-19	1981	Replacement	No
150.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-27	1981	Replacement	No
151.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-31	1981	Replacement	No
152.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-35	1981	Replacement	No
153.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-39	1981	Replacement	No
154.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-47	1981	Replacement	No
155.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-51	1981	Replacement	No
156.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 38-55	1981	Replacement	No
157.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 42-3	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name

Date August 26, 1988

Two N. 9th Street, Allentown, PA 18101
Address

Sheet 1213 of 32
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2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th Street, Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition, SUMMER '77 Addenda N/A Code Case _____
(b) Applicable Edition of Section XI utilized for Repairs or Replacements 19 80, Winter '81

5. Identification of Components Required or Replaced and Replacement Components

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
158.	CRD Flange Bolts	G.E.	HT. NO. CD SN842	N/A	CRD 42-11	1981	Replacement	No
159.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 42-15	1981	Replacement	No
160.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 42-19	1981	Replacement	No
161.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 42-23	1981	Replacement	No
162.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 42-35	1981	Replacement	No
163.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 42-39	1981	Replacement	No
164.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-7	1981	Replacement	No
165.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-11	1981	Replacement	No
166.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-15	1981	Replacement	No
167.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-19	1981	Replacement	No
168.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-23	1981	Replacement	No
169.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-27	1981	Replacement	No
170.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-35	1981	Replacement	No
171.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-39	1981	Replacement	No
172.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 46-43	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 1314 of 32
ICC #/R/S/

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition Summer '77 Addenda N/A Code Case _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Item No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped Yes or No
173.	CRD Flange Bolts	G.E.	HT.No.CD SN842	N/A	CRD 46-47	1981	Replacement	No
174.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-11	1981	Replacement	No
175.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-15	1981	Replacement	No
176.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-23	1981	Replacement	No
177.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-31	1981	Replacement	No
178.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-39	1981	Replacement	No
179.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-43	1981	Replacement	No
180.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-47	1981	Replacement	No
181.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 50-51	1981	Replacement	No
182.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 54-27	1981	Replacement	No
183.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 54-31	1981	Replacement	No
184.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 54-35	1981	Replacement	No
185.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 54-39	1981	Replacement	No
186.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 58-19	1981	Replacement	No
187.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 58-27	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 1415 of 32
KL 8/23/88

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 77 Edition SUMMER '77 Addenda N/A Code Case _____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80, Winter '81

6. Identification of Components Required or Replaced (No Replacement Components)

Item No.	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped (Yes or No)
188.	CRD Flange Bolts	G.E.	HTW, CD SN842	N/A	CRD 58-31	1981	Replacement	No
189.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 58-35	1981	Replacement	No
190.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 02-27	1981	Replacement	No
191.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 02-39	1981	Replacement	No
192.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 06-15	1981	Replacement	No
193.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 06-23	1981	Replacement	No
194.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 06-27	1981	Replacement	No
195.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 06-47	1981	Replacement	No
196.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 10-39	1981	Replacement	No
197.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 14-23	1981	Replacement	No
198.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 18-3	1981	Replacement	No
199.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 18-27	1981	Replacement	No
200.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 18-39	1981	Replacement	No
201.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-19	1981	Replacement	No
202.	CRD Flange Bolts	G.E.	CD SN842	N/A	CRD 22-55	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System _____
5. (a) Applicable Construction Code ASME III 19 '77 Edition SUMMER '77 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Replaced or Replaced and Replacement Components

Item No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Replaced, or Replacement	ASME Code Stamped Yes or No
203.	CRD Flange Bolts	G.E.	HT. NO CD SN842	N/A	CRD-26-19	1981	Replacement	No
204.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 26-43	1981	Replacement	No
205.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 30-03	1981	Replacement	No
206.	CRD FLANGE BOLTS	G.E.	CD SN842	N/A	CRD 30-47	1981	Replacement	No
207.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 34-35	1981	Replacement	No
208.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 42-31	1981	Replacement	No
209.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 42-47	1981	Replacement	No
210.	CRD FLANGE BOLTS	GE	CD SN842.	N/A	CRD 42-59	1981	Replacement	No
211.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 46-51	1981	Replacement	No
212.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 50-35	1981	Replacement	No
213.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 54-43	1981	Replacement	No
214.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 02-31	1981	Replacement	No
215.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 10-15	1981	Replacement	No
216.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 14-19	1981	Replacement	No
217.	CRD FLANGE BOLTS	GE	CD SN842	N/A	CRD 18-59	1981	Replacement	No

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

2. Plant Susquehanna Steam Electric Station
Name
Barwick, PA 18603
Address

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 1617 of 32
VC 8/19/85

Unit 2

SEE sheets 19 thru 31
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____
5. (a) Applicable Construction Code ASME III 19 77 Edition, SUMMER '77 Addenda N/A Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Required or Replaced and Replacement Components

Item No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Reqs. red. Replaced. or Replacement	ASME Code Stamped (Yes or No)
218.	CRD Flange Bolts	GE	HT. No. CD SNB42	N/A	CRD 22-03	1981	Replacement	No
219.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 26-03	1981	Replacement	No
220.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 26-27	1981	Replacement	No
221.	CRD Flange BOLTS	GE	CD SNB42	N/A	CRD 26-39	1981	Replacement	No
222.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 30-39	1981	Replacement	No
223.	CRD FLANGE BOLTS	GE	CD SN B42	N/A	CRD 30-55	1981	Replacement	No
224.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 34-15	1981	Replacement	No
225.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 34-59	1981	Replacement	No
226.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 38-11	1981	Replacement	No
227.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 42-27	1981	Replacement	No
228.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 42-43	1981	Replacement	No
229.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 42-51	1981	Replacement	No
230.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 46-31	1981	Replacement	No
231.	CRD FLANGE BOLTS	GE	CD SNB42	N/A	CRD 46-55	1981	Replacement	No
232.	CRD Flange 3. Hts	GE	CD SNB42	N/A	CRD 50-19	1981	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 August 26, 1988

Two N. 9th Street, Allentown, PA 18101
Address

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2. Plant Susquehanna Steam Electric Station
Name

Unit 2

Berwick, PA 18603
Address

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name

Type Code Symbol Stamp N/A

Two N. 9th Street, Allentown, PA 18101
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
1	Y70940	C88-262-123	Add shim plate to MST-222-HL6
238, 239	V73455	C88-262-063	Replace HV241F001 valve body
2, 3 242	V73455	C88-262-071	Machine HV241F001 disc (superceded by 096 below)
2, 3	V73455	C88-262-072	Remove and reinstall small pipe clip on SP-DBA-212-H2555 H2656 gmc 8/26/88
248, 249	V73455	C88-262-073	Replace section of damaged pipe
240, 241	V73455	C88-262-096	Replace disc in HV241F001
243, 244	V73456	C88-262-062	Replace HV241F002 valve body
250, 251	V73456	C88-262-069	Replace SPD ⁶ clip on SP-DBA-212-H2655
245	V73456	C88-262-070	Machine HV241F002 disc (superceded by 095 below)
246, 247	V73456	C88-262-095	Replace HV241F002 disc
4	V83533	C88-262-050	Blend indication on reactor nozzle NIA
5, 6	V83159	C88-262-003	Replace CRD 5415
7, 8	V83160	C88-262-004	Replace CRD 4655
9, 10	V83161	C88-262-005	Replace CRD 4631
11, 12	V83162	C88-262-006	Replace CRD 4227
13, 14	V83163	C88-262-007	Replace CRD 3459
15, 16	V83164	C88- 262 -008	Replace CRD 3431

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
17, 18	V83165	C88-262-009	Replace CRD 3039
19, 20	V83166	C88-262-010	Replace CRD 2639
21, 22	V83167	C88-262-011	Replace CRD 2619 2603 Jmc 8/26/88
23, 24	V83168	C88-262-012	Replace CRD 3055
25, 26	V83169	C88-262-013	Replace CRD 2203
27, 28	V83170	C88-262-014	Replace CRD 0231
29, 30	V83304	C88-262-015	Replace CRD 3811
31, 32	V83305	C88-262-016	Replace CRD 4243
33, 34	V83306	C88-262-017	Replace CRD 3415
35, 36	V83307	C88-262-018	Replace CRD 2627
37, 38	V83308	C88-262-019	Replace CRD 1859
39, 40	V83309	C88-262-020	Replace CRD 1419
41, 42	V83311	C88-262-021	Replace CRD 1015
43, 44	V83312	C88-262-022	Replace CRD 4251
45, 46	V83313	C88-262-023	Replace CRD 5019
47, 48	V83314	C88-262-024	Replace CRD 5027
49, 50	V83315	C88-262-025	Replace CRD 5447
51, 52	V83320	C88-262-026	Replace CRD 5419

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
53	V83656	C88-262-098	Replace Flange Bolts on CRD# 02-43
54	V83656	C88-262-099	Replace Flange Bolts on CRD# 02-19
55	V83656	C88-262-100	Replace Flange Bolts on CRD# 06-39
56	V83656	C88-262-101	Replace Flange Bolts on CRD# 06-19
57	V83656	C88-262-102	Replace Flange Bolts on CRD# 14-07
58	V83656	C88-262-103	Replace Flange Bolts on CRD# 18-55
59	V83656	C88-262-104	Replace Flange Bolts on CRD# 18-43
60	V83656	C88-262-105	Replace Flange Bolts on CRD# 18-23
61	V83656	C88-262-106	Replace Flange Bolts on CRD# 18-07
62	V83656	C88-262-107	Replace Flange Bolts on CRD# 22-59
63	V83656	C88-262-108	Replace Flange Bolts on CRD# 22-39
64	V83656	C88-262-109	Replace Flange Bolts on CRD# 22-27
65	V83656	C88-262-110	Replace Flange Bolts on CRD# 34-39
66	V83656	C88-262-111	Replace Flange Bolts on CRD# 34-27
67	V83656	C88-262-112	Replace Flange Bolts on CRD# 38-59
68	V83656	C88-262-113	Replace Flange Bolts on CRD# 38-43
69	V83656	C88-262-114	Replace Flange Bolts on CRD# 38-23
70	V83656	C88-262-115	Replace Flange Bolts on CRD# 38-03

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11/1/88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1983

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
71	V83656	C88-262-116	Replace Flange Bolts on CRD# 42-55
72	V83656	C88-262-117	Replace Flange Bolts on CRD# 42-07
73	V83656	C88-262-118	Replace Flange Bolts on CRD# 54-43
74	V83656	C88-262-119	Replace Flange Bolts on CRD# 54-23
75	V83656	C88-262-120	Replace Flange Bolts on CRD# 58-39
76	V83656	C88-262-121	Replace Flange Bolts on CRD# 58-23
77	V83668	C88-262-124	Replace Flange Bolts on CRD# 02-23
78	V83668	C88-262-124	Replace Flange Bolts on CRD# 02-35
79	V83668	C88-262-124	Replace Flange Bolts on CRD# 06-31
80	V83668	C88-262-124	Replace Flange Bolts on CRD# 06-35
81	V83668	C88-262-124	Replace Flange Bolts on CRD# 06-43
82	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-11
83	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-19
84	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-23
85	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-27
86	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-31
87	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-35
88	V83668	C88-262-124	Replace Flange Bolts on CRD# 10-43

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9/2/83

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
89	V83668	C88-262-124	Replace Flange Bolts on CRDs 10-47
90	V83668	C88-262-124	Replace Flange Bolts on CRDs 10-51
91	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-11
92	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-15
93	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-27
94	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-31
95	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-35
96	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-39
97	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-43
98	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-47
99	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-51
100	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-55
101	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-11
102	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-15
103	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-19
104	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-31
105	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-35
106	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-47

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class I)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Required or Replaced and Replacement Components

Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
107	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-51
108	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-11
109	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-7
110	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-15
111	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-23
112	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-31
113	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-35
114	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-43
115	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-47
116	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-51
117	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-7
118	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-11
119	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-15
120	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-23
121	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-31
122	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-35
123	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-47
124	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-51

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81

6. Identification of Components Required or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
125	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-55
126	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-59
127	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-7
128	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-11
129	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-15
130	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-19
131	V83668	C88-262- 24	Replace Flange Bolts on CRDs 30-23
132	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-27
133	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-31
134	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-35
135	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-43
136	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-51
137	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-59
138	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-3
139	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-7
140	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-11
141	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-19
142	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-23

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

Unit 2
See Below
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class I)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
143	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-43
144	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-47
145	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-51
146	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-55
147	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-7
148	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-15
149	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-19
150	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-27
151	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-31
152	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-35
153	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-39
154	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-47
155	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-51
156	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-55
157	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-3
158	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-11
159	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-15
160	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-19

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

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

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
161	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-23
162	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-35
163	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-39
164	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-7
165	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-11
166	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-15
167	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-19
168	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-23
169	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-27
170	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-35
171	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-39
172	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-43
173	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-47
174	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-11
175	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-15
176	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-23
177	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-31
178	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-39

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988
Sheet 28 of 32

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

Unit 2
See Below
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components
Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
179	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-43
180	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-47
181	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-51
182	V83668	C88-262-124	Replace Flange Bolts on CRDs 54-27
183	V83668	C88-262-124	Replace Flange Bolts on CRDs 54-31
184	V83668	C88-262-124	Replace Flange Bolts on CRDs 54-35
185	V83668	C88-262-124	Replace Flange Bolts on CRDs 54-39
186	V83668	C88-262-124	Replace Flange Bolts on CRDs 58-19
187	V83668	C88-262-124	Replace Flange Bolts on CRDs 58-27
188	V83668	C88-262-124	Replace Flange Bolts on CRDs 58-31
189	V83668	C88-262-124	Replace Flange Bolts on CRDs 58-35
190	V83668	C88-262-124	Replace Flange Bolts on CRDs 02-27
191	V83668	C88-262-124	Replace Flange Bolts on CRDs 02-39
192	V83668	C88-262-124	Replace Flange Bolts on CRDs 06-15
193	V83668	C88-262-124	Replace Flange Bolts on CRDs 06-23
194	V83668	C88-262-124	Replace Flange Bolts on CRDs 06-27
195	V83668	C88-262-124	Replace Flange Bolts on CRDs 06-47
196	V83668	C88-262-124	Replace Flange Bolts on CRDs 10-39

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

1. Owner Pennsylvania Power & Light Co.
Name

Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988

Sheet 29 of 32

2. Plant Susquehanna Steam Electric Station
Name

Berwick, PA 18603
Address

Unit 2

See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
Name

Two N. 9th Street, Allentown, PA 18101
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class 1)

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
197	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-23
198	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-3
199	V83668	C98-262-124	Replace Flange Bolts on CRDs 18-27
200	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-39
201	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-19
202	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-55
203	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-19
204	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-43
205	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-03
206	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-47
207	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-35
208	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-31
209	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-47
210	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-59
211	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-51
212	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-35
213	V83668	C88-262-124	Replace Flange Bolts on CRDs 58-43
214	V83668	C88-262-124	Replace Flange Bolts on CRDs 02-31

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

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date August 26, 1988
 Sheet 30 of 32

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

Unit 2
 See Below
 Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

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

4. Identification of System Reactor Vessel and Auxiliaries (System 262A, Class I)

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components
 Note #1: Identification of work documents.

Item(s)	Susquehanna Work Auth. No.	Code Repair Form No.	Description of Work
215	V83668	C88-262-124	Replace Flange Bolts on CRDs 10-15
216	V83668	C88-262-124	Replace Flange Bolts on CRDs 14-19
217	V83668	C88-262-124	Replace Flange Bolts on CRDs 18-59
218	V83668	C88-262-124	Replace Flange Bolts on CRDs 22-03
219	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-03
220	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-27
221	V83668	C88-262-124	Replace Flange Bolts on CRDs 26-39
222	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-39
223	V83668	C88-262-124	Replace Flange Bolts on CRDs 30-55
224	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-15
225	V83668	C88-262-124	Replace Flange Bolts on CRDs 34-59
226	V83668	C88-262-124	Replace Flange Bolts on CRDs 38-11
227	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-27
228	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-43
229	V83668	C88-262-124	Replace Flange Bolts on CRDs 42-51
230	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-31
231	V83668	C88-262-124	Replace Flange Bolts on CRDs 46-55
232	V83668	C88-262-124	Replace Flange Bolts on CRDs 50-19

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address
- Date August 26, 1988
- Sheet 32 of 32
2. Plant Susquehanna Steam Electric Station
Name
Berwick, PA 18603
Address
- Unit 2
3. Work Performed By Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address
- Repair Organization P.O. No., Job No., etc. _____
 Type Code Symbol Stamp N/A
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System REACTOR VESSEL AND AUXILIARIES (SYSTEM 262A, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 74 Edition winter '74 Addenda N/A Code Case _____
EXCEPT ITEM 252 which is ASME III 1968, Summer 1
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Required or Replaced and Replacement Components

ITEM No	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Required, Repaired, or Replacement	ASME Code Stamped (Yes or No)
238.	2" GLOBE VALVE	YARWAY	A7630	N/A	HV241F001	1979	REPLACED	Yes
239.	2" GLOBE VALVE	YARWAY	A9083	N/A	HV241F001	1979	REPLACEMENT	Yes
240	VALVE DISC	YARWAY	C7	N/A	HV241F001	1979	REPLACED	No
241	VALVE DISC.	YARWAY	D1	N/A	HV241F001	1988	REPLACEMENT	No
242.	VALVE DISC.	YARWAY	C7	N/A	HV241F001	1979	REPAIRED REPLACED in 8/1988	No
243	2" GLOBE VALVE	YARWAY	A1068	N/A	HV241F002	1977	REPLACED	Yes
244.	2" GLOBE VALVE	YARWAY	A9071	N/A	HV241F002	1979	REPLACEMENT	Yes
245.	VALVE DISC.	YARWAY	N/A	N/A	HV241F002	1977	REPAIRED	No
246	VALVE DISC	YARWAY	N/A	N/A	HV241F002	1977	REPLACED	No
247	VALVE DISC.	YARWAY	D3	N/A	HV241F002	1988	REPLACEMENT	No
248	2" SCH 160 PIPE	BECHTEL	N/A	N/A	SP-DBA-212-3	1983	REPLACED	Yes
249	2" SCH 160 PIPE	PP&L	HTNO. 152706	N/A	SP-DBA-212-3	1988	REPLACEMENT	No
250	SPD-6 CLIP	ITT GRINNELL	N/A	N/A	SP-DBA-212-H2655	1983	REPLACED	No
251	SPD-6 CLIP	ITT GRINNELL	N/A	N/A	SP-DBA-212-H2655	1988	REPLACEMENT	No
252.	Reactor Closure Head	CB&I	B5024	3687	25401	1977	Repaired	Yes

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

An Required by the Provisions of the ASME Code Rules

P. O. # 41263

RECORD COPY

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 06421
(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 Manufacturer NUCLEAR SERVICE LINE VALVES SIZE - 2"

SERIAL NUMBER(S) A9071 THRU A9084

(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: Pressure --- psi --- °F or Pressure Class 1500 psi (1)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1974, Addenda WINTER 1974, Code No. ---

4300
721542

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Coatings <u>CR</u>	<u>AMS 5385</u>	<u>NOVA/HONMET CORPORATION</u>	<u>DISC</u>
(b) Flanges <u>7</u>	<u>SA105</u>	<u>PITTSBURGH FORGING CO.</u>	<u>BODY</u>
<u>8</u>	<u>SA105</u>	<u>PITTSBURGH FORGING CO.</u>	<u>BODY</u>
<u>1726</u>	<u>SA182 Gr. F06</u>	<u>UNIVERSAL-CYCLOPR CORP.</u>	<u>BACKSEAT BUSHING</u>

(1) For manually operated valves only.

*Supplemental sheets in form of notes, alterations or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2, 3, 4, and 5 of this data report is contained on each sheet, and (3) each sheet is numbered and number of sheets is indicated at top of first sheet.

3/78

8708

This form (NPV-1) may be obtained from the Order Dept., ASME, 545 E. 47 St., New York, N.Y. 10017.

298 3077

RECORD COPY

FORM NPV-1 (back)

(e) Rating	Material Spec. No.	Manufacturer	Remarks
NONE			

03000721543

B. Hydraulic test: 5400 psi.

CERTIFICATION OF DESIGN

Design information on file as BECHTEL POWER CORPORATION
Stress analysis report on file as BECHTEL POWER CORPORATION
Design specifications certified by JOHN R. SCHMIDEL
Stress analysis report certified by HAROLD I. GREGG (I) Prof. Eng. State PA, Reg. No. 19870E
(II) Signature not required. List same only. (II) Prof. Eng. State PA, Reg. No. 9033E

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

Date SEPTEMBER 14, 79 Signed YARWAY CORPORATION by W. A. YOLGER
(Manufacturer)

Certificate - 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 in the State of PENNSYLVANIA and employed by PHILA. MANUFACTURERS MUTUAL INSURANCE COMPANY OF PHILADELPHIA, PA. have inspected the equipment described in this Data Report on SEPTEMBER 14, 19 79, and state that on the basis 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 14 19 79

H. S. Hewitt
H. S. HEWITT

Commission: NB 6344 PA 2056
(National Board, Boiler, Pressure and Vessel Inspectors)

*PART OF THE FACTORY MUTUAL SYSTEM

18 298 3078

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

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

REGISTER 12977

P.O. 41799

1. (a) Manufactured by YARWAY CORPORATION, BLUE BELL, PA 19422
(Name and address of NPT Certificate Holder)
- (b) Manufactured for Pennsylvania Power & Light Co., Susquehanna Steam Electric Station
(Name and address of Certificate Holder for constructed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part 015-01 thru 015-06 Nat'l Bd. No. _____
 - (a) Constructed According to Drawing No. 966238-04 Drawing Prepared by YARWAY CORP.
 - (b) Description of Part Inspected Stem Assembly 2" - 55158, 258 Qty. 6
 - (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W74, Case No. _____ Class 1
3. Remarks: Renewal parts for Nuclear globe valve
(Brief description of service for which component was designed)
Material: Disc AMS 5385

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 4/18 1988 Signed Yarway Corp. By A.W. Peszka
(NPT Certificate Holder) F. W. Peszka
Certificate of Authorization Expires Nov. 14, 1989 Certificate of Authorization No. NPT2450

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Pennsylvania Power & Light Co.

Stress analysis report on file at Pennsylvania Power & Light Co.

Design specifications certified by John R. Schmiedel Penna. 19370E
Richard O. Schlueter Prof. Eng. State Penna. Reg. No. 26382E
Sidney Arthur Copland Penna. 19877E

Stress analysis report certified by George J. Loos Prof. Eng. State NJ Reg. No. 23225

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA *
_____ have inspected the part of a pressure vessel described in this Partial Data Report on April 18, 1988 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 April 18, 1988

Inspector's Signature Am Hinks Commissions Pa 2006
* FACTORY MUTUAL SYSTEM
National Board, State, Province and No. _____

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

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 WA V83754; C88-264-139; 131
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR RECIRCULATION (SYSTEM 264A, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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-DCA-250-H5001	1983	REPLACED	NO
SMALL PIPE SUPPORT	PP&L	N/A	N/A	SP-DCA-250-H5001	1988	REPLACEMENT	NO

7. Description of Work PREFABRICATE + REPLACE A PORTION OF SP-DCA-250-H5001
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A ONLY STOCK "MATERIAL" USED.
Applicable Manufacturer's Data Reports may be attached

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed JK J.A. Blakeslee Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAY 25 1988 to JUN 11 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Inspector's Signature Commission NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 WA V83902; C08-264-147
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System REACTOR RECIRCULATION (SYSTEM 264B, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter '72 ⁷⁵ or 8/23/88 Addenda. N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEM/DISC ASSY	MASONEILAN	N/A	N/A	HV243F020	1978	REPLACED	No
STEM/DISC ASSY	MASONEILAN	SN N00186-522 (1810-3-1065-16)	N/A	HV243F020	1986	REPLACEMENT	No

7. Description of Work REPLACE STEM/DISC ASSEMBLY IN HV243F020.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 990 psi Test Temp. — °F
Form 480 No. 422

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks APPLICABLE N-2 ATTACHED

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed JA Blakeslee Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Walchan, Mass. have inspected the components described in this Owner's Report during the period JUN 16 1988 to JUN 16 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

* corrected copy

4, 2002 4578

L.H.V.

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PARTS AND APPURTENANCES*

as required by the Provisions of the ASME Code Rules

1. (a) Manufacturer MGR. Mason-Dresser Industries, 85 Bodwell St., Avon, Ma. 02322
(Name and address of Manufacturer of part)
- (b) Manufacturer Power & Light, 2 North Ninth St., Allentown, Pa. 18101
(Name and address of Manufacturer of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part N00186-522 Nat'l Bd. No. NA
- (a) Constructed According to Drawing No. P10873 Drawing Prepared by Masonellan
- (b) Description of Part Inspected 1" Plug s/a p/n 013431-135-1L2 Heat No. 1810-3-1065-11 thru 16
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W1975, Case No. NA Class 1
3. Remarks: Replacement for Masonellan valve serial no.s N00186-5, -6, -7, -8, -9, -10, -12, -14, 5-15
(Brief description of service for which component was designed)

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

Date March 12 19 86 signed Masonellan-Dresser By [Signature]
(Manufacturer)
 Certificate of Authorization Expires 8-19-86 Certificate of Authorization No. N-1837

CERTIFICATION OF DESIGN FOR APPURTENANCE (-when applicable)

Design information on file at Masonellan-Dresser Industries

Stress analysis report on file at Masonellan-Dresser Industries

Design specifications certified by Sidney A. Copland Prof. Eng. State Pa. Reg. No. 19877-E

Stress analysis report certified by Gerald W. Austin Prof. Eng. State Ma. Reg. No. 28243

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MA. and employed by H.S.B.P.S.I. Co. of Hartford, Ct. have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on November 18 1986, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date March 12 19 86

[Signature] Inspector's Signature Commission Mass 871 Pa WC2846 National Board, State, Province and No.

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

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address
 ① WAV 74106; CAB-273-055
 ② WAV 73783; CAB-273-064
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th Street, Allentown, PA 18101
Address
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System CONTAINMENT ATMOSPHERIC CONTROL (SYSTEM 273A, CLASS 2)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Required or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
① SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HCB-227-H5017	1983	REPAIRED	No
② 1" SCH 40 PIPE	BECHTEL	N/A	N/A	SP-HCB-222-3	1983	REPLACED	No
② 1" SCH 40 PIPE	PPIL	WT. No. 465103	NA	SP-HCB-222-3	1988	REPLACEMENT	No

7. Description of Work ① REMOVE & REINSTALL SPDG CUP IN SP-HCB-227-H5017
 ② REPLACE SECTION OF 1" SCH 40 PIPE ON ISO SP-HCB-222-3

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure N/A psi Test Temp. N/A °F
 EXEMPT (1" & UNDER)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed KE Jo Blakesley Date August 26 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Florida and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 4 1988 to JUN 17 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Pigeon Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31 19 88

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 WA V83894: 088-283-146
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System MAIN STEAM (SYSTEM 283A, CLASS 1)
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter '72 ⁷⁴ Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEM/DISC ASSY.	YARWAY	VALVE SN A0555	N/A	239F026F	1977	REPLACED	YES
STEM/DISC ASSY.	YARWAY	VALVE SN C-2150	N/A	239F026F	1986	REPLACEMENT	YES

7. Description of Work REPLACE STEM/DISC ASSEMBLY IN 239F026F
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1005 ± 8 psi Test Temp. 185 °F
SE-200-002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED NPV-1 DATA REPORT FOR VALVE USED FOR REPLACEMENT

Applicable Manufacturer's Data Reports to be attached

PARTS.

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blakesley Date August 26, 19 08
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Ardenright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period JUN 15 1988 to JUN 17 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commission NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date AUG 31, 19 08

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* R25412
As Required By the Provisions of the ASME Code, Section III, Div. 1 P.O.# 21361

- 1. Manufactured by Yarway Corporation, Norristown & Narcissa Bds., Blue Bell, PA 19422
(Name and Address of N Certificate Holder)
- 2. Manufactured for Penna. Power & Light Company
(Name and Address of Purchaser or Owner)
- 3. Location of Installation Berwick, PA
(Name and Address)
- 4. Pump or Valve Valve Nominal Inlet Size 1" (inch) Outlet Size 1" (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) 5515B	C2146	---	045111/REV.F	I	---	1986
(2)	THRU					
(3)	C2151					
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Nuclear Service Valve
(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			
D14	AMS 5385E	Howmet/Nova	Disc
(b) Forgings			
P9	ASME SA105	Cape Ann Tool Co.	Body

NO. 87-0582
RECORD PACKAGE
PAGE 12 OF 101



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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
5293	Peter A. Prasse/ Universal Cyclops	ASME SA182 F6A	Backseat Bushing

9. Hydrostatic test 5575 psi. Disk Differential test pressure 4100 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974
 Addenda W1974 (Date), Code Case No. -, Date 11/12/87
 Signed Yarway Corporation (IN Certificate Holder) *[Signature]*
 Our ASME Certificate of Authorization No. N2449 to use the N symbol expires 11/14/89 (Date)

CERTIFICATION OF DESIGN

Design information on file at Penna. Power & Light Company
 Stress analysis report (Class 1 only) on file at Penna. 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. Loos
 PE State NJ Reg. No. 23225
 (1) Signature not required. List name only.



No. 87-0582 RECORD PACKAGE PAGE 17 OF 10

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-Boston Insurance of Norwood, MA have inspected the pump, or valve, described in this Data Report on JANUARY 12, 1987, 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 12, 1987 *[Signature]* Commissions Pa. 2606 (N)
 (Inspector) **Factory Mutual System
 (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. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name ① WA Y70901; C88-283-054
Berwick, PA 18603 ② WA V83187; C88-283-126
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System MAIN STEAM (SY. 283A, CLASS 2)
 ② ASME SEC. III, 1971, W'73
5. (a) Applicable Construction Code ① ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 <u>CARBON STEEL SHIM</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>DBB-204-H17</u>	<u>-</u>	<u>REPLACEMENT</u>	<u>N/A</u>
② <u>1" GLOBE VALVE</u>	<u>YARWAY</u>	<u>A0759</u>	<u>N/A</u>	<u>LSHH-20112B-3RV</u>	<u>1977</u>	<u>REPLACED</u>	<u>YES</u>
② <u>1" GLOBE VALVE</u>	<u>YARWAY</u>	<u>BB 238</u>	<u>N/A</u>	<u>LSH(H)-20112B-3RV</u>	<u>1983</u>	<u>REPLACEMENT</u>	<u>YES</u>

7. Description of Work ① ADD SHIM TO HANGER DBB-204-H17
 ② REPLACE 1" GLOBE VALVE *LSH 20112B-3RV / LSHH 20112B-3RV "
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure N/A psi Test Temp. N/A °F
 EXEMPT (1" UNDER) REF: FORM 480 No 402

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED NPV-1 DATA REPORT FOR REPLACEMENT VALVE
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE ~~repair/~~

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 None

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

Signed W. J. Blakeslee Jr. Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period APR 4 1988 to JUN 18 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7980 PA2204 **NIBS IS**
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

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

As Required by the Provisions of the ASME Code Rules

P.O. #40553

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA 19422 Order No. 83537
(Name & Address of Manufacturer)
2. Manufactured for BECHTEL POWER CORP. Order No. 7220-M-127-CC
(Name and Address)
3. Owner CONSUMERS POWER CO.
4. Location of Plant MIDLAND, MI
5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE 1"
 SERIAL NUMBER(S) B8230 THRU B8254
(Brief description of service for which equipment was designed)

(a) Drawing No. 045787 A Prepared by YARWAY CORPORATION

(b) National Board No. N/A

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

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

Edition 1971, Addenda Date WINTER, '73, Case No. ---

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings <u>D7</u>	<u>AS 5385R</u>	<u>NOVA/BOWMETT CORPORATION</u>	<u>DISC</u>
(b) Forgings <u>N6</u>	<u>SA 105</u>	<u>CAPE ANN TOOL COMPANY</u>	<u>BODY</u>

No. 87-1581
 RECORD PALMATIC
 PAGE 82 OF 196

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

BECHTEL
 833
 7220-M-127-CC 8116
 DCN # 18.0
 PCH OR A

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Beating	NONE			
(d) Other Parts	3926	SA182 F6A CL 2	PETER A. FRASSE CO.	BACKSEAT BUSHING

5. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at CONSUMERS POWER COMPANY
 Stress analysis report on file at NOT REQUIRED
 Design specifications certified by _____ (1) Prof. Eng. Stamp _____ Reg. No. _____
 Stress analysis report certified by NOT REQUIRED (1) Prof. Eng. Stamp _____ Reg. No. _____
 (1) Signature not required. List name only. *MICHAEL O. ROTHWELL MICH. 20451
 THEODORE W. VANVICK MICH. 22285
 To certify that the statements made in this report are correct. RONALD W. ZORNEY MICH. 17926
 Date 7/29/83 TANWAY CORPORATION W. A. VOLGER
 Certificate of Authorization No. N2449 expires NOVEMBER 14, 1983

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PHILA MFG. MUTUAL INS. CO of NORWOOD, MA have inspected the equipment described in this Data Report on 7/29 19 83, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*FACTORY MUTUAL SYSTEM

Date 7/29 19 83

Walter S. Hutter
 (Inspector)

Commission NO 6344 PM 2056
 (National Board, State, Province and No.)

87-1280
 RECORD PACKAGE
 PAGE 83 OF 101

BECHTEL
 839

7220-M-127-CC R/16
 DCN #18.0
 PG 11A OF 11

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603
Address
V74051; 88-283-011
WA V83741; C88-283-130
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th Street, Allentown, PA 18101
Address
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System MAIN STEAM (SYSTEM 283 B CLASS 3)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identifications	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-HCC-236-H5018	1983	REPAIRED	No
SPD-6 CLIP	ITTGRINNELL	N/A	N/A	SP-HCC-236-H5018	1983	REPLACED	No
SPD-6 CLIP	ITTGRINNELL	N/A	N/A	SP-HCC-236-H5018	1988	REPLACEMENT	No
SPD-6 CLIP	ITTGRINNELL	N/A	N/A	SP-HCC-236-H5019	1983	REPLACED	No
SPD-6 CLIP	ITTGRINNELL	N/A	N/A	SP-HCC-236-H5019	1988	REPLACEMENT	No

7. Description of Work REPLACE SPD-6 CLIPS ON HANGERS SP-HCC-236-H5018 & H 5019
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks THIS NIS-2 ALSO COVERS MAINTENANCE 522 # 88-283-011 (WAV74051).
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE ~~repair~~

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 None

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

Signed rc J. Blakeslee Date August 26, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period MAY 6 1988 to MAY 16 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Regent Commissions HB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31 1988

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

1. Owner Pennsylvania Power & Light Co. Date August 26, 1988
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 WA 183853 ; C88-283-141
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th Street, Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System MAIN STEAM (SYSTEM 283E, CLASS 3)
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" SCH 40 SS PIPE	BECHTEL	N/A	N/A	SP-HCC-231-19	1983	REPAIRED	No

7. Description of Work BLEND OUT ARC STRIKE ON SP-HCC-231-19.
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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 None

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

Signed W. J. Blakeslee Date August 26, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Arkwright Mutual Insurance Company of Waltham, Mass. have inspected the components described in this Owner's Report during the period JUN 2 1988 to JUN 3 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB7930 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 31, 19 88

ISI
GROUP

NIS-2 FORMS

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

1. Owner Pennsylvania Power & Light Co. Date 5/17/83
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70938
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RXR A LOOP BULK, SK 264A, CLASS E
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 16R6 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	549	N/A	RWS-200 H49	78	Replaced	No
Mechanical Shock	Pacific Scientific	1333	N/A	RWS-200 H49	82	Replacement	No

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.13 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-18-88 to 4-13-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/15/88
Name
Two North Ninth St., Allentown, PA 18101
Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 470949
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System HPCI STM SUP, SU 252B, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	14477	N/A	SPOBA-202 H5000	82	Replaced	NO
Mechanical Shock	Pacific Scientific	14476	N/A	SPOBA-202 H5000	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 2/17
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 DeBue Date 5.13.88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-15-88 to 4-18-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/15/85
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# Y70925
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM BULK, s/u 283 CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	24384	N/A	SPDBA-208 H3	82	Replaced	NO
Mechanical Shock	Pacific Scientific	27875	N/A	SPDBA-208 H3	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-15-88 to 3-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/3/88
Name
Two North Ninth St., Allentown, PA 18101
Address

2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address Unit 2
E & S Const./WA# 470956
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System MAIN STEAM, SU-283, CLASS F

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	24375	N/A	SPDBA-208 H7	82	Replaced	NO
Mechanical Shock	Pacific Scientific	13060	N/A	SPDBA-208 H7	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-11-88 to 4-13-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Name Y 70956 Date
Two North Ninth St., Allentown, PA 18101 Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Name Unit 2
P.O. Box 467, Berwick, PA 18603 Address E & S Const./WAI Y 70956
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Name Type Code Symbol Stamp N/A
Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System MAIN STEAM, SU 262 CLASS I
5. (a) Applicable Construction Code ASME III 19 71 Edition, TAB W 72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUT	ITT GRINNELL	ITEM 14	N/A	SPDBA-211 H1	83	REPAIRED	NO
HEAVY HEX NUT	ITT GRINNELL	ITEM 14	N/A	SPDBA-211 H1	88	REPLACEMENT	NO

7. Description of Work REPAIRED 1 HEAVY HEX NUT WITH THE SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 13 1988 to APR 20 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 23 19 88

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

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

Date 6/22/85
Sheet 1 of 1

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

Unit 2
E & S Const./WA# V73561
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System SLI 2624 CLASS I, VESSEL SPIDER

5. (a) Applicable Construction Code ASME III 19 71 Edition, TYPICAL 22 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
ROOT PINS (2)	ITT GANNELL	ITEM 6	N/A	SPDBA-212 HSL44	83	REPAIRED	UC
ROOT PINS (2)	ITT GANNELL	ITEM 6	N/A	SPDBA 212 HSL44	88	REPAIRED	UC

7. Description of Work REPLACED 2 ROOT PINS WITH SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 6.23, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 9 1988 to JUN 10 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogreute
Inspector's Signature

Commissions NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date JULY 1, 19 88

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

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

Date 6/22/85
Sheet 1 of 1

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

Unit 2
E & S Const./WA# Y 70930
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System SK 242A, CLASS I, VESSEL SPIDER

5. (a) Applicable Construction Code ASME III 19 71 Edition MAR 1972 Addenda N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT CORNING	ITEM 6	N/A	SPDBA-212 H2645	83	REPAIRED	NO
PIVOT PIN	ITT CORNING	ITEM 6	N/A	SPDBA-212 H2645	88	REPAIRED	NO

7. Description of Work REPAIRED PIVOT PIN WITH SAME SIZE S/N 20849

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ✓/

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 6-23 , 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 9 1988 to JUN 10 1988 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 William P. Rozenet Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 1 , 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 6/22/85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# V7093C
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System SU-2620, CLASS I, VESSEL SPIDER
5. (a) Applicable Construction Code ASME III 1971 Edition, INP 1979 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT GINNELL	ITEM 6	N/A	SP-DBA-212-H2645	83	REPAIRED	N/C
PIVOT PIN	ITT GINNELL	ITEM 6	N/A	SP-DBA-212-H2645	88	REPLACEMENT	N/C

7. Description of Work REPAIRED PIVOT PIN WITH SAME SIZE 5/16 X 2.0850
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

3. Remarks _____
Applicable Manufacturer's Data Reports to be Attached _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIRMENT 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 _____ 6-23 _____ 19 88 _____
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 9 1988 to JUN 10 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogut _____ Commissions NE7980 PA2204 NIBS IS _____
Inspector's Signature National Board, State, Province, and Endorsements

Date July 1 _____ 19 88 _____

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

1. Owner Pennsylvania Power & Light Co. Date 7/2/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 470153
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification System MAINSTEAM SU 283 CLASS II
5. (a) Applicable Co. struction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	28796	N/A	SP08B-208 H13	82	Replaced	NO
Mechanical Shock	Pacific Scientific	22980	N/A	SP08B-208 H13	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

REBUE

Date

5/12

19

88

Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-12-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commissions NB2845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date May 18 1988

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

1. Owner Pennsylvania Power & Light Co. Date 7/21/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit -
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y 70857
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MEDIA STEAM SUCTION CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	14468	N/A	SP208-208 H17	82	Replaced	NC
Mechanical Shock	Pacific Scientific	17230	N/A	SP208-208 H17	83	Replacement	NC

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conforms to the rule, if the repair or replacement

ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 5.12.88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dalton E. Tilley Commission NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

FORM NIS-2 OWNER'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 4/13/88
Two North Ninth St., Allentown, PA 18101 Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Name Unit 2
P.O. Box 467, Berwick, PA 18603 Address E & S Const./WA# Y70858
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Name Type Code Symbol Stamp N/A
 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System MAIN STEAM L.C.S., SU 2834, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	23614	N/A	SP05B-223 H3004	81	Replaced	NO
Mechanical Shock	Pacific Scientific	6316	N/A	SP05B-223 H3004	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I 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 SIA, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/15/88
Name
Two North Ninth St., Allentown, PA 18101
Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 4 70858
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM RCS, SU-283H, CLASS II
5. (a) Applicable Construction Code ASME 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 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HANGER PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	SPDBB-223 H3004	83	REPLACED	NO
HANGER PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	SPDBB-223 H3004	88	REPLACEMENT	NO

7. Description of Work REPLACED PIVOT PIN WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and the 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

FORM N-3-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 4/13/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470913
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System R/R A LOOP 34 2643, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	18398	N/A	SPDCA-202 112602	81	Replaced	NO
Mechanical Shock	Pacific Scientific	20810	N/A	SPDCA-202 H2602	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-12-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470948
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System COPPER-STEEL BLOOD 3/4" 251B, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	5628	N/A	SDX'A 207 H5003	79	Replaced	NO
Mechanical Shock	Pacific Scientific	10730	N/A	SDX'A 207 H5003	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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. report or replacement

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

[Signature]

Date

5/13

19

88

Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-22-88 to 4-1-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 9/16/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470957
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System R/R 2100P, SU-264B, CINSSE
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 16R6 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	23016	N/A	SP200-219 H5019	81	Replaced	NO
Mechanical Shock	Pacific Scientific	29006	N/A	SP200-219 H5019	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-18-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

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

Date 7/16/88

Sheet 1 of 1

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

Unit 2

E & S Const./WA# 470959
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System R/R NCCP SU-2698, CIASST

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	23630	N/A	SP219-219 H 5632	81	Replaced	NO
Mechanical Shock	Pacific Scientific	13097	N/A	SP219-219 H 5632	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-2 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-18-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilly Commissions NB3845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/8/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70944
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RHR SDC Common, 14, 249C, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	13083	N/A	SPDCA-226 H5049	80	Replaced	NO
Mechanical Shock	Pacific Scientific	24362	N/A	SPDCA-226 H5049	82	Replacement	NA

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/17, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-8-88 to 4-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley, Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/8/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# Y7044
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RHR SDC Common, S4-249C, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	28740	N/A	SPDCA-226 H5049	82	Replaced	NO
Mechanical Shock	Pacific Scientific	23633	N/A	SPDCA-226 H5049	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
- 7 Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-8-88 to 4-9-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/16/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# Y70906
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RCIC Steam, 340, 2400, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	24368	N/A	SPDCA 232 H9001	82	Replaced	NO
Mechanical Shock	Pacific Scientific	16909	N/A	SPDCA 232 H9001	80	Replacement	LC

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental charts in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-15-88 to 4-17-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 2/16/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 471357
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM LINES, SH. 292A, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	24376	N/A	SPWN-296 H3007	82	Replaced	NO
Mechanical Shock	Pacific Scientific	16388	N/A	SPWN-296 H3007	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

[Signature]
Superintendent of Plant

Date 5-12

1988

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-20-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa 2361

NI

National Board, State, Province, and Endorsements

Date

May 18 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/29/85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470911
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RRB Loop Buck, sub LAB, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	24369	N/A	SPDCB-208 H5006	82	Replaced	NO
Mechanical Shock	Pacific Scientific	28786	N/A	SPDCB-208 H5006	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lifts, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-28-88 to 4-1-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 1/18/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WAB 780512
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CAC SAMPLE SU 2730, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	* National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	21551	N/A	SP-20-206 H5005	82	Replaced	Yes
Mechanical Shock	Pacific Scientific	20835	N/A	SP-20-206 H5005	82	Replacement	Yes

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-18-88 to 4-19-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dalton E. Tilley Commissions NB8845 P-2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/10/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const. / WA# 470469
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code & Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CAC SAMPLE, S/W 273C, CLASS II
5. (a) Applicable Construction Code ASME III 1971 Edition, July 1973 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repair or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HANGER LOAD STUD	ITT GRINELL	ITEM 13	N/A	SPHCB-227 H5021	1983	REMOVED	NO
HANGER LOAD STUD	ITT GRINELL	ITEM 13	N/A	SPHCB-227 H5021	1988	REPLACEMENT	NO

7. Description of Work REMOVED LOAD STUD WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A.
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-7-88 to 3-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/9/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# V74060
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM BULK, SH 2830, CLASS III
5. (a) Applicable Construction Code ASME 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 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LX'D PIN	ITT GRINNELL	ITEM 6	N/A	GBC-201 H279	83	REPAIRED	NO
LX'D PIN	ITT GRINNELL	ITEM 6	N/A	GBC-201 H279	88	REPLACEMENT	NO

7. Description of Work 2 GBC'S REPT PIN WITH SAME SIZE
- 8 Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-17, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-6-88 to 4-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa 2361 NI
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/1/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 770874
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System COPE SPRAY BLOOP, S.U. 251B, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	19544	N/A	HEB-204 H55	81	Replaced	YES
Mechanical Shock	Pacific Scientific	19477	N/A	HEB-204 H55	81	Replacement	YES

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 R. Bue Date 5/12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 15 1988 to MAR 18 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogovin III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 23 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/8/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470853
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System HPCI STM E/H, SU 252, CLASS IV
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	14440	N/A	HBB-208 H54	82	Replaced	NO
Mechanical Shock	Pacific Scientific	14431	N/A	HBB-208 H54	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-8-88 to 4-11-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/19/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 470467
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV II PWR LRCL, SDC, SKI 299F, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	14186	N/A	HBB-210 H39	82	Replaced	NO
Mechanical Shock	Pacific Scientific	14190	N/A	HBB-210 H39	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-14-88 to 3-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NR8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/28/86
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 17003 E & S Const./WA# 470893
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV II RHP LDC, SOC, S/N 249, CLASS II
5. (a) Applicable Construction Code ASME III 19 71 Edition, TPH 472 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HELMET	ITEM 1A	ITT GRINNELL	N/A	HBB-211-1131 S/N 10557	83	REPAIRED	NO
HEAVY HELMET	ITEM 1A	ITT GRINNELL	N/A	HBB-211-1131 S/N 10557	88	REPAIRMENT	NO

7. Description of Work REPAIRED 1 HEAVY HELMET ON S/N 10557 WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement co. 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 5/12, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-5-88 to 3-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillson Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/8/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470893
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV II PWR LPCI SDC, SU 249, CLASS II
5. (a) Applicable Construction Code ASME 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 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	HBB-211 H31	83	REPLACED	NO
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	HBB-211 H31	88	REPLACEMENT	NO
HEAVY HEX NUT ⁽¹⁾	ITT GRINNELL	ITEM 14	N/A	HBB-211 H31	83	REPLACED	NO
HEAVY HEX NUT ⁽¹⁾	ITT GRINNELL	ITEM 14	N/A	HBB-211 H31	88	REPLACEMENT	NO

7. Description of Work REPLACED HEAVY HEX NUT AND LOAD STUD WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-5-88 to 3-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/2/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470482
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CAC SAMPLE, S/U 273A, CLASS II
5. (a) Applicable Construction Code ASME III 1971 Edition, THRU W'77 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PADDLE	ITT GRINNELL	ITEM 11	N/A	HBB-218 HL	1983	REPAIRED	NO
PADDLE	ITT GRINNELL	ITEM 11	N/A	HBB-218 HL	1988	REPLACEMENT	NO

7. Description of Work REPAIRED 1 EYE PADDLE EXTENSION
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/12 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-12-88 to 3-19-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilly Commissions NB8845 Pa2361 NI
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 1/18/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 4709427
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RBCAL 56 2441 CLASSITT
5. (a) Applicable Construction Code ASME III 19 71 Edition, July 1977 Addenda, 4/1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>WHEEL</u>	<u>ITT</u>	<u>ITEM</u>	<u>N/A</u>	<u>HBD-289</u>	<u>83</u>	<u>REPAIRED</u>	<u>NO</u>
<u>WHEEL</u>	<u>GRANVILLE</u>	<u>IT</u>	<u>N/A</u>	<u>H2</u>	<u>83</u>	<u>REPLACED</u>	<u>NO</u>
<u>WHEEL</u>	<u>ITT</u>	<u>ITEM</u>	<u>N/A</u>	<u>HBD-289</u>	<u>83</u>	<u>REPLACED</u>	<u>NO</u>
<u>WHEEL</u>	<u>GRANVILLE</u>	<u>IT</u>	<u>N/A</u>	<u>H2</u>			

7. Description of Work REPAIRED WHEEL WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-18-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton S. Tilly Commissions NB8845 Pa2361 NI
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 1/16/85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 4 20999
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RBCW 54 2040 CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	14414	N/A	HSD-2040 118	82	Replaced	NO
Mechanical Shock	Pacific Scientific	17187	N/A	HSD-2040 118	83	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-14-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/9/55
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 471456
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System ESU LCC'S - SU2394, CIVILS HT
5. (a) Applicable Construction Code ASME 111 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	23387	N/A	HCC-1129 H-29	83	Replaced	NO
Mechanical Shock	Pacific Scientific	20870	N/A	HCC-2129 H-29	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NOTE - X
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.2, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-9-88 to 4-11-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB 8845 Pa 3361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 1/15/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 480514
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Two Bldg. Steam, 54 293, CLASS. II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	12628	N/A	MSL-200 111	85	Replaced	NO
Mechanical Shock	Pacific Scientific	10564	N/A	MSL-200 111	83	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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

Owner or Owner's Designee, Title

Superintendent of Plant

Date

5-13

19

88

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-18-88 to 5-12-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa2361 NI
National Board, State, Province, and Endorsements

Date

May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/27/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480514
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System TURB BLDG STEAM, SU 293, CLASS II
5. (a) Applicable Construction Code ASME III 1971 Edition, TWP4072 Addenda n/a Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUT	ITT GRINNELL	ITEM 19	N/A	MSL-200 H1	83	REPLACED	NO
HEAVY HEX NUT	ITT GRINNELL	ITEM 19	N/A	MSL-200 H1	88	REPLACEMENT	NO

7. Description of Work REPLACED ONE HEAVY HEX NUT WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

n/a

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.0 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAY 9 1988 to MAY 12 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commissions NB7980 PA220A NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 23 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 7/18/83
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480504
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURBINE STEAM SU-299 COND II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686* Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	3285	N/A	MSL-200 H3	78	Replaced	NO
Mechanical Shock	Pacific Scientific	9532	N/A	MSL-200 H3	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that 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 5-13, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-18-88 to 4-29-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dalton E. Tilley Commissions NB8845 Pa 2361 N.I
Inspector's Signature National Board, State, Province, and Endorsements
Date May 19, 1988

SNUBBER CHANGE NOTICE

WA/CWO No. V83634

Hanger No. MSL-200-H5

TYPE OF CHANGE:

- | | |
|--|---|
| <input type="checkbox"/> Snubber was added | <input type="checkbox"/> Snubber was deleted |
| <input type="checkbox"/> Snubber was replaced | <input type="checkbox"/> Snubber was repaired |
| <input type="checkbox"/> Snubber location change | <input checked="" type="checkbox"/> Other |

EXPLANATION/COMMENTS: With H5 centered on the 28" pipe, east-side snubber s/n 14416 has a west-to-east offset of 7°, thereby creating a 94° angle from pipe center line instead of an 87° angle as indicated by the hanger drawing. And west-side snubber s/n 4271 has an east-to-west offset of 3 1/2°, thereby creating an 86 1/2° angle instead of an 87° angle indicated by the hanger drawing. These conditions also affect the offsets shown on drawing sections C-C and D-D.

ADDITIONAL INFORMATION:

<u>OLD/EXISTING SNUBBER</u>	<u>NEW/REPLACEMENT SNUBBER</u>
Serial No. <u>N/A</u>	Serial No. <u>N/A</u>
Size <u>N/A</u>	Size <u>N/A</u>
Year Built <u>N/A</u>	Year Built <u>N/A</u>
ASME Stamped (Y/N) <u>N/A</u>	ASME Stamped (Y/N) <u>N/A</u>

Robert Shultz
NAME

Robert Shultz
SIGNATURE

5-3-88
DATE

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

1. Owner Pennsylvania Power & Light Co. Date 7/18/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E. & S Const./WA# 480511
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Two Boilers Steam 44 223, Class II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	13773	N/A	MSL-200 H.5(a)	82	Replaced	NO
Mechanical Shock	Pacific Scientific	4271	N/A	MSL-200 H.5(a)	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydraulic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks u/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this O - 's Report during the period 4-18-88 to 4-22-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report, in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NJ
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 7/18/85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480514
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLOW DOWN SU 288, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	13900	N/A	MSE-200 H5(b)	82	Replaced	NO
Mechanical Shock	Pacific Scientific	14916	N/A	MSE-200 H5(b)	83	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

n/a

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

5-12

19

88

Owner or Owner's Designee, Title

Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-18-88 to 4-22-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery
Inspector's Signature

Commissions NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470487
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM S/U 293, CLASS II
5. (a) Applicable Construction Code ASME III 1971 Edition, T-1000.72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PADDLE	ITT GRINNELL	ITEM 11	N/A	MSL-200 HG	1983	REPAIRED	NO
PADDLE	ITT GRINNELL	ITEM 11	N/A	MSL-200 HG	1988	REPLACEMENT	NO

7. Description of Work REPAIRED EXTENSION PADDLE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Own Report during the period 3-22-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date June 2, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/11/85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 16803 E & S Const./WA# Y70484
Address Repair Organization P.D. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TUEBBIDGE STEAM, 54 293, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	13412	N/A	MSL-200 146(A)	82	Replaced	YES
Mechanical Shock	Pacific Scientific	16396	N/A	MSL-200 146(A)	83	Replacement	YES

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/18, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-11-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date June 2, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/11/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 476484
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM, SH 293, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	13413	N/A	MSL-200 H4(B)	82	Replaced	YES
Mechanical Shock	Pacific Scientific	13429	N/A	MSL-200 H4(B)	82	Replacement	YES

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A

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

Signed _____ Date 5/12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected _____ components described in this Owner's Report during the period 3-11-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 3361 N.I
Inspector's Signature National Board, State, Province, and Endorsements

Date June 2, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 5/6/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480514
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB Blix Steam, IN 293, CLASS II
5. (a) Applicable Construction Code ASME III 19 71 Edition, TPH N'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
EXTENSION TUB ASSY	ITT GRINNELL	ITEM 9	N/A	MSL-200 H7	83	REPAIRED	NO
EXTENSION TUB ASSY	ITT GRINNELL	ITEM 9	N/A	MSL-200 H7	88	REPLACEMENT	NO

7. Description of Work REPLACED EXTENSION TUB ASSY WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Otl or Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that 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 5-13-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 5-6-88 to 5-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 5/6/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# Y 80514
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM, SU. 293, CLASS II
5. (a) Applicable Construction Code ASME III 19 71 Edition, JAPRA '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUTS (2)	ITT GRINNELL	ITEM 14	N/A	MSL-200 H7	83	REPAIRED	NO
HEAVY HEX NUTS (2)	ITT GRINNELL	ITEM 14	N/A	MSL-200 H7	88	REPLACEMENT	NO
LOAD STUDS 2	ITT GRINNELL	ITEM 13	N/A	MSL-200 H7	83	REPAIRED	NO
LOAD STUDS 2	ITT GRINNELL	ITEM 13	N/A	MSL-200 H7	88	REPLACEMENT	NO

7. Description of Work REPAIRED 2 HEAVY HEX NUTS AND 2 LOAD STUDS WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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

5/5, 1988

Owner or Owner's Designee, Title

Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 5-6-88 to 5-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 6/2/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 183603
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM, SU 293, CLASS II
5. (a) Applicable Construction Code ASME III 19 71 Edition, THRU 1972 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOADSTUD	ITT GANNELL	ITEM 13	N/A	MSL-200 H9	83	REPLACED	NO
LOADSTUD	ITT GANNELL	ITEM 13	N/A	MSL-200 H9	88	REPLACEMENT	NO
NERVY A6X	ITT GANNELL	ITEM 14	N/A	MSL-200 H9	83	REPLACED	NO
NERVY A6X	ITT GANNELL	ITEM 14	N/A	MSL-200 H9	88	REPLACEMENT	NO

7. Description of Work REPLACED 1 LOADSTUD AND 1 NERVY WEL NUT WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIRMENT 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 6-23 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 2 1988 to JUN 14 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William P. Pogorell Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 1 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 5/20/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603 Unit 2
Address E & S Const./WA# Y70464
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM, SU293, CLASS#
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1164	N/A	MSL-200 H9(B)	77	Replaced	YES
Mechanical Shock	Pacific Scientific	3647	N/A	MSL-200 H9(B)	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-25 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-11-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date June 2 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/19/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 480514
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM SU 293, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, 1644-5 & 1686 Addenda, 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	3749	N/A	MSL-200 H10 (A)	78	Replaced	NO
Mechanical Shock	Pacific Scientific	9445	N/A	MSL-200 H10 (A)	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

[Signature]
Superintendent of Plant

Date

5-12, 1988

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-19-88 to 4-27-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commission

NB8845 Pa2361 NI
National Board, State, Province, and Endorsements

Date

May 19, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 5/6/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480514
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TURB BLDG STEAM, SAL 293, CLASS#
5. (a) Applicable Construction Code ASME III 1971 Edition, 1974 W'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>HEAVY HEX NUT</u>	<u>ITT CORNWELL</u>	<u>ITEM 14</u>	<u>N/A</u>	<u>MSL-200 H11</u>	<u>83</u>	<u>REPAIRED</u>	<u>NO</u>
<u>HEAVY HEX NUT</u>	<u>ITT CORNWELL</u>	<u>ITEM 14</u>	<u>N/A</u>	<u>MSL-200 H11</u>	<u>88</u>	<u>REPLACEMENT</u>	<u>NO</u>

7. Description of Work REPAIRED HEAVY HEX NUT WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-13-88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-22-88 to 5-9-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/12/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# V83156
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 262, CLASS I
5. (a) Applicable Construction Code ASME III 1971 Edition, THRU 10'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222 H19	83	REPLACED	NO
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222 H19	88	REPLACEMENT	NO
(4) HEAVY HEX NUT	ITT GRINNELL	ITEM 19	N/A	MST-222 H19	83	REPLACED	NO
HEAVY HEX NUT	ITT GRINNELL	ITEM 19	N/A	MST-222 H19	88	REPLACEMENT	NO

7. Description of Work REPAIRED 4 HEAVY HEX NUTS AND 1 LOAD STUD ON SU 262 WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-25 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-8-88 to 4-12-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NA8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date June 2 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/20/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470992
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 242 A, CLASS F
5. (a) Applicable Construction Code ASME III 1st 71 Edition, JANU'72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	MST-222 H17	83	REPAIRED	NO
PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	MST-222 H17	88	REPLACEMENT	NO

7. Description of Work REPLACED PIVOT PIN WITH SAME.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 _____ 5.13 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-20-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/2/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70992
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, 54242, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5, 1686 Code Carn
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1826	N/A	MST-222 H18	83	Replaced	NO
Mechanical Shock	Pacific Scientific	357	N/A	MST-222 H18	77	Replacement	NA

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-12-88 to 4-20-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NR8845 Pa2361 A
Inspector's Signature National Board, State, Province, and Endorsement

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/20/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
 2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470992
Address Repair Organization P.O. No., Job No., etc.
 3. Inspected by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System MAIN STEAM, SU 242A, CLASS I

5. (a) Applicable Construction Code ASME III 1971 Edition, THRU 4'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	MST-222 H18	83	REPLACED	NO
PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	MST-222 H18	88	REPLACEMENT	NO

7. Description of Work REPLACED PIVOT PIN WITH SAME SIZE.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-12-88 to 4-20-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commission: NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 1988

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

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

Date 3/14/88

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address

Unit 2

E & S Const./WA# 470990
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System MAIN STEAM BULK, S/W 283, CLASS I

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1562	N/A	MST-222 H21	82	Replaced	NO
Mechanical Shock	Pacific Scientific	1630	N/A	MST-222 H21	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replace seat 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-16-88 to 3-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

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

Date 5/20/88

Sheet 1 of 1

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

Unit 2

E & S Const./WA# '70940'
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System MAIN STEAM BULK, SU 283, CLASS I

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	3222	N/A	DBA-202 H12	78	Replaced	NO
Mechanical Shock	Pacific Scientific	9450	N/A	DBA-202 H12	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-25, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-16-88 to 3-19-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date June 2, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/28/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 480516
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 283, CLASS#
5. (a) Applicable Construction Code ASME III 1971 Edition, TRANS '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	DBB-201 H3	83	REPAIRED	NO
PIVOT PIN	ITT GRINNELL	ITEM 6	N/A	DBB-201 H3	88	REPLACEMENT	NO
LOADSTUD	ITT GRINNELL	ITEM 13	N/A	DBB-201 H3	83	REPAIRED	NO
LOADSTUD	ITT GRINNELL	ITEM 13	N/A	DBB-201 H3	85	REPLACEMENT	NO

7. Description of Work REPAIRED PIVOT PIN AND LOADSTUD WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks: N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.13, 1988
Owner or Owner's Designee, Title superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period APR 28 1988 to APR 28 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogent Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 23 1988

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

1. Owner Pennsylvania Power & Light Co. Date 9/1/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const. / WA# 4 70459
Address 9259 9/14/85
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, S/4.283, CLASS II
5. (a) Applicable Construction Code ASME ITC 19 71 Edition, THRU W'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PADDLE	ITT CORNWELL	ITEM 2	N/A	DBB-201 H4	83	REPLACED	NO
PADDLE	ITT CORNWELL	ITEM 2	N/A	DBB-201 H4	88	REPLACED	NO

7. Description of Work REPLACED PADDLE WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-8-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/28/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y80515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, LH 283, CLASS #
5. (a) Applicable Construction Code ASME III 1971 Edition JANU W'72 Addenda n/a Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
THREADED EXT PIECE	ITT GRINNELL	ITEM 11	N/A	DBB-201 HG	83	REPLACED	NO
THREADED EXT PIECE	ITT GRINNELL	ITEM 11	N/A	DBB-201 HG	88	REPLACEMENT	NO

7. Description of Work REPLACED THREADED EXTENSION PIECE WITH SAMPSITE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 S.A. 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-20-88 to 4-27-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/19/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	3052	N/A	DBB-201 H6(A)	78	Replaced	NO
Mechanical Shock	Pacific Scientific	4567	N/A	DBB-201 H6(A)	78	Replacement	NO

7. Description of Work: Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIC-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-20-88 to 4-27-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

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

Date 9/21/85
Sheet 1 of 1

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

Unit 2
E & S Const./WA# 480516
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System MAINSTEAM, 56283A, CLASS II

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacer ...nt Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	2595	N/A	OBB-201 H11(b)	77	Replaced	NO
Mechanical Shock	Pacific Scientific	14412	N/A	OBB-201 H11(b)	83	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-13-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-26-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

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

Date 5/16/88
Sheet 1 of 1

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

Unit 2
E & S Const./WA# V83187
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System TURB BLDG STEAM, SU 299, CLASS II

5. (a) Applicable Construction Code ASME III 1971 Edition, TURK W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD PIN	ITT GRINNELL	ITEM 6	N/A	DBB-201-H16 SU 396	83	REPAIRED	NO
LOAD PIN	ITT GRINNELL	ITEM 6	N/A	DBB-201-H16 SU 354	88	REPLACEMENT	NO

7. Description of Work REPLACED LOAD PINS WITH SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-25, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-16-88 to 3-17-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa-2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date June 2, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 5/16/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 1/83/87
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System TUBS BLDG STEAM, SU 293, CLASS II
5. (a) Applicable Construction Code ASME 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 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD PIN (L)	ITT CORINWELL	ITEM 6	N/A	DBB-201 H16 SN 442	83	REPLACED	NO
LOAD PIN (L)	ITT CORINWELL	ITEM 6	N/A	DBB-201 H16 SN 442	88	REPLACEMENT	NO

7. Description of Work REPLACED LOAD PIN WITH SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-25, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 5-16-88 to 5-17-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date June 2, 1988

FORM NIS-2 OWNER'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 4/21/88

Two North Ninth St., Allentown, PA 18101
Address

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

P.O. Box 467, Berwick, PA 18603
Address

E & S Const./WA# Y 80516
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name

Type Code Symbol Stamp N/A

Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System MAINSTEAM, SU-283A, CLASS II

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 16R6 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	6825	N/A	DBB-201 H162	78	Replaced	NO
Mechanical Shock	Pacific Scientific	3516	N/A	DBB-201 H162	77	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-26-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

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

Date 9/21/88
Sheet 1 of 1

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

Unit 2
E & S Const./WA# 480516
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System MAIN STEAM, SU-283A

5. (a) Applicable Construction Code ASME III 19 7ⁱ Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	6824	N/A	DBB-201 H16 B	78	Replaced	NO
Mechanical Shock	Pacific Scientific	4642	N/A	DBB-201 H16 B	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-26-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/21/85
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 17 03 E & S Const./WA# Y 80515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, 34283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	110	N/A	DBB-201 H17	78	Replaced	NO
Mechanical Shock	Pacific Scientific	467	N/A	DBB-201 H17	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Report, to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-13 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-23-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/2/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603 Unit 2
Address E & S Const./WA# 470901
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, S/U 283, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1631	N/A	DBB-201 424	NO PLATE	Replaced	NO
Mechanical Shock	Pacific Scientific	524	N/A	DBB-201 424	78	Replacement	YES

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-4-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures 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.

Delton E. Tillery Commissions NA8845 Pa 2361 NI
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/19/85
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467 Berwick, PA 18603
Address Unit 2
E & S Const./WA# 480515
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 283 A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repair or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1159	N/A	DBB-202 H4(b)	77	Replaced	NO
Mechanical Shock	Pacific Scientific	9485	N/A	DBB-202 H4(b)	82	Replacement	NO

7. Work Performed Replaced existing snubber with same size, functionally tested replacement snubber.
8. Test Performed: Hydraulic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

Information may be obtained from lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information is included on each sheet, and (3) each sheet is numbered and the number of sheets is indicated.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that the 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 5.12, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Pennsylvania and employed by Arkwright Mutual Insurance Co. of Waltham, MA have inspected the components described in this Owner's Report during the period 4-20-88 to 4-23-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/28/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 71 Edition, TIPPL W'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 19 71 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
THREADED EXTENSION P.	ITT CORINNELL	ITEM 11	N/A	DBB-202 H6	83	REPLACED	NO
THREADED EXTENSION P.	ITT CORINNELL	ITEM 11	N/A	DBB-202 H6	88	REPLACEMENT	NO

7. Description of Work REPLACED THREADED EXTENSION PIECE WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-23-88 to 4-28-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

DE Tilley Commissions NA8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 9/19/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	2569	N/A	DBB-202 HG A	77	Replaced	NO
Mechanical Shock	Pacific Scientific	9273	N/A	DBB-202 HG A	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pr.umatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/4 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-20-88 to 4-27-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845, Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/19/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	2573	N/A	DBB-202 H6(O)	77	Replaced	NO
Mechanical Shock	Pacific Scientific	14185	N/A	DBB-202 H6(O)	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that 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 5-12, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-20-88 to 4-23-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NJ
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 1988

FORM NIS-2 OWNER'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 4/19/88

Two North Ninth St., Allentown, PA 18101
Address

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

P.O. Box 467, Berwick, PA 18603
Address

E & S Const./WA# 480515
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

Address

4. Identification of System MAIN STEAM, SA 283A, CLASS II

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 30 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	2476	N/A	DBB-202 H7	77	Replaced	NO
Mechanical Shock	Pacific Scientific	19461	N/A	DBB-202 H7	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-20-88 to 5-3-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

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

Delton E. Tillery Commissions NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

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

Date 4/21/88
Sheet 1 of 1

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

Unit 2
E & S Const./WA# 480516
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System MAIN STEAM, 283A CLASS II

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Num. of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	2570	N/A	08B-202 H12 6	77	Replaced	NO
Mechanical Shock	Pacific Scientific	13677	N/A	08B-202 H12 6	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that the 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

5-12

19

88

Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-26-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa2361

NI

National Board, State, Province, and Endorsements

Date

May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/21/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480516
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU-283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	2477	N/A	DBB-203 H7 u	77	Replaced	NO
Mechanical Shock	Pacific Scientific	19529	N/A	DBB-203 H7 u	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-2, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-26-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commission NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/21/88
Name
Two North Ninth St., Allentown, PA 18101 Street 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 480515
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM SU283, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	301	N/A	DBB-203 H16	80	Replaced	NO
Mechanical Shock	Pacific Scientific	319	N/A	DBB-203 H16	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remark: N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13-88 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-23-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB3845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date: 4/2/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit: 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# Y 70901
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp: N/A
Name Authorization No.: N/A
Address Expiration Date: N/A
4. Identification of System: MAIN STEAM, SIU 283, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1626	N/A	DBB-203 H-21	82	Replaced	No
Mechanical Shock	Pacific Scientific	1647	N/A	DBB-203 H-21	82	Replacement	No

7. Description of Work: Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-4-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dorston E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/11/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470483
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM BULK. 283A, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1598	N/A	DBB-205-12	82	Replaced	NO
Mechanical Shock	Pacific Scientific	573	N/A	DBB-205-12	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-11-88 to 4-8-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 1988

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

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

Date 9/21/88
Sheet 1 of 1

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

Unit 2
E & S Const./WA# 480516
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System MAIN STEAM, SU 283A, CLASS II

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	4591	N/A	DBB-205 H5	78	Replaced	NO
Mechanical Shock	Pacific Scientific	14164	N/A	DBB-205 H5	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that the 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 5-12-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-21-88 to 4-26-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470853
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System HPCI STEAM SUPPLY, SA-250, C/D457E
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1:441	N/A	DBB-214 NA	82	Replaced	NO
Mechanical Shock	Pacific Scientific	13432	N/A	DBB-214 NA	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-22-88 to 4-2-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/13/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 470887
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System FWTURB BLDG, SU 245, CLASS IV
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	555	N/A	DBD-201 H27	78	Replaced	NO
Mechanical Shock	Pacific Scientific	463	N/A	DBD-201 H27	78	Replacement	NO

7. Description of Work: Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dalton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/28/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470887
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System FW TURB BLDG, SU. 245A, CLASS III
5. (a) Applicable Construction Code ASME 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 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
EXTENSION PC ASS'Y	ITT GRANEL	ITEM 9	N/A	OBD-201 H27	83	REPAIRED	NO
EXTENSION PC ASS'Y	ITT GRANEL	ITEM 9	N/A	OBD-201 H27	85	REPLACEMENT	NO

7. Description of Work REPAIRED EXTENSION PC ASS'Y WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached _____

CERTIFICATE 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 5.13, 1988 _____
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery _____ Commissions NB 8845 Pa 2361 NI _____
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/16/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const. /VA# 470929
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RWCU BULK, S/M 261A, CLASS I
5. (a) Applicable Construction Code ASME III 19 71 Edition, JANU'72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HANGER LOADSTUD	ITT GRINNELL	ITEM 13	N/A	DCA-203 H9	83	REPLACED	NO
HANGER LOADSTUD	ITT GRINNELL	ITEM 13	N/A	DCA-203 H9	88	REPLACEMENT	NO
HEAVY HEX NUTS	ITT GRINNELL	ITEM 14	N/A	DCA-203 H9	83	REPLACED	NO
HEAVY HEX NUTS	ITT GRINNELL	ITEM 14	N/A	DCA-203 H9	88	REPLACEMENT	NO

7. Description of Work REPLACED LOADSTUD AND HEAVY HEX NUTS WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-16-88 to 3-18-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470980
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System COPE SPRAY BLOOP, 1/4 251B, CLASS F
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	9451	N/A	DCA-207 H16	82	Replaced	NO
Mechanical Shock	Pacific Scientific	6959	N/A	DCA-207 H16	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ *F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-21-88 to 3-22-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 1/7/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470977
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RHR SDC Common R/PB, 54249K, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	570	N/A	DCA-208 49	78	Replaced	No
Mechanical Shock	Pacific Scientific	569	N/A	DCA-208 49	78	Replacement	No

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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

5-12

19

88

Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-7-88 to 4-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commissions

NB 8845 Pa 2361 NI

National Board, State, Province, and Endorsements

Date

May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/17/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470977
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System PHR SDC COMMON RRPB, SK 299K, CLASS I
5. (a) Applicable Construction Code ASME III 19 71 Edition, THRU W'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PADDLE	ITT CORNWELL	ITEM 11	N/A	DCA-208 H9	83	REPAIRED	NO
PADDLE	ITT CORNWELL	ITEM 11	N/A	DCA-208 H9	88	REPAIRED	NO

7. Description of Work REPLACED PADDLE WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 S.D. 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-7-88 to 4-9-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 1/13/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470915
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV 1 PWR L PCL SDC, SU 2496, CLASS I.
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	12626	N/A	DCA-210 H14	85	Replaced	NO
Mechanical Shock	Pacific Scientific	9477	N/A	DCA-210 H14	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

R. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

[Signature] Date 5-12, 19 87
Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery
Inspector's Signature

Commission NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19, 19 88

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

Owner Pennsylvania Power & Light Co.
Name

Date 4/8/88

Two North Ninth St., Allentown, PA 18101
Address

Sheet 1 of 1

Plant Susquehanna Steam Electric Station
Name

Unit 2

P.O. Box 467, Berwick, PA 18603
Address

E & S Const./WA# Y 70973
Repair Organization P.O. No., Job No., etc.

Work Performed by Owner
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

Address

Identification of System DIVISION 1, CLASS 2, SUBCLASS 2, GROUP 1, PART 1, SECTION 1, CODE CASE 1644-5 & 1686

1) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case

2) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	526	N/A	OCA-210 H31	78	Replaced	NO
Mechanical Shock	Pacific Scientific	151	N/A	OCA-210 H31	78	Replacement	NO

Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 1987
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-9-88 to 4-14-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/13/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470973
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV I PWR LDC15DC, SU 249G CLASS I
5. (a) Applicable Construction Code ASME III 1971 Edition, JANU W'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HANGER LOAD STUD	ITT GRINNELL	ITEM 13	N/A	DCA-210 H31	83	REPAIRED	NO
HANGER LOAD STUD	ITT GRINNELL	ITEM 13	N/A	DCA-210 H31	88	REPLACEMENT	NO
HEAVY HEX NUTS	ITT GRINNELL	ITEM 14	N/A	DCA-210 H31	83	REPAIRED	NO
HEAVY HEX NUTS	ITT GRINNELL	ITEM 14	N/A	DCA-210 H31	88	REPLACEMENT	NO

7. Description of Work REPAIRED LOAD STUD AND 2 HEAVY HEX NUT WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NA

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspector; and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. of Waltham, MA have inspected the components described in this Owner's Report during the period 4-9-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

FORM NIS-2 OWNER'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 4/13/88

Two North Ninth St., Allentown, PA 18101
Address

Sheet 1 of 1

2. Plant Siswuehanna Steam Electric Station
Name

Unit 2

P.O. Box 467, Berwick, PA 18603
Address

E & S Const./WA# Y70973
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

Address

4. Identification of System DWT RHR LRV1500, BU2996, CLASS F

5. (a) Applicable Construction Code ASME III, 19 71 Edition, THRU 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUTS	ITT CORINNELL	ITEM 14	N/A	DCA-210 H32	83	REPAIRED	NO
HEAVY HEX NUTS	ITT CORINNELL	ITEM 14	N/A	DCA-210 H32	88	REPLACEMENT	NO

7. Description of Work REPAIRED 2 HEAVY HEX NUTS WITH SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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

5-13

19

88

Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-14-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 6/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# V73561
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 34.249, CLASS I, PWR HD SPRAY SPIDER
5. (a) Applicable Construction Code ASME III 1971 Edition 1972 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT CORNING	ITEM 6	N/A	DCA-211 H5	83	REPAIRED	NO
PIVOT PIN	ITT CORNING	ITEM 6	N/A	DCA-211 H5	88	REPAIRED	NO

7. Description of Work REPAIRED PIVOT PIN WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 6.22 , 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period JUN 9 1988 to JUN 10 1988 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 William P. Rogers Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date July 1 , 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/12/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470981
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RUCHEW 542620, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code * Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1270	N/A	DIA-202 H7	78	Replaced	NO
Mechanical Shock	Pacific Scientific	9467	N/A	DIA-202 H7	82	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period, 4-8-88 to 4-13-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NA8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/8/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70981
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System PW4FW, SK 262A, CLASS F
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	551	N/A	DIA-202 NR	78	Replaced	NO
Mechanical Shock	Pacific Scientific	386	N/A	DIA-202 NR	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that the 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 5-2 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-9-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/2/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E S Const./WA# Y 70981
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RWCU FW, 3/4 263A, CLASS F
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	527	N/A	DLA-202-415	78	Replaced	NO
Mechanical Shock	Pacific Scientific	529	N/A	DLA-202-415	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Rems: N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5/12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-9-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

FORM NIS-2 OWNER'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 4/13/88

Two North Ninth St., Allentown, PA 18101
Address

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name

Unit 2

P.O. Box 467, Berwick, PA 18603
Address

E & S Const./WA# Y70981
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

Address

4. Identification of System PWCU FW, SU 245A, CLASS I

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1824	N/A	DLA-203 H2	83	Replaced	NO
Mechanical Shock	Pacific Scientific	570	N/A	DLA-203 H2	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 _____ 5/12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-9-88 to 4-13-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/28/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470981
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System PUCU FW, SU 245A, CLASS I
5. (a) Applicable Construction Code ASME III 19 71 Edition, TRU 4/72 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>PIVOT PIN</u>	<u>ITT GRINNELL</u>	<u>ITEM 6</u>	<u>N/A</u>	<u>DIA-203 H2</u>	<u>83</u>	<u>REPAIRED</u>	<u>NO</u>
<u>PIVOT PIN</u>	<u>ITT GRINNELL</u>	<u>ITEM 6</u>	<u>N/A</u>	<u>DIA 203 H2</u>	<u>88</u>	<u>REPLACEMENT</u>	<u>NO</u>

7. Description of Work REPAIRED PIVOT PIN WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-9-88 to 4-13-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tiller Commission NB8845 Pa2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 9/2/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address Unit 2
E & S Const./WA# 470981
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RUCU FW, SK 295, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	547	N/A	DLA-203 H3	78	Replaced	NO
Mechanical Shock	Pacific Scientific	2275	N/A	DLA-203 H3	84	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5/12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-8-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dalton E. Tilly Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 4/13/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470981
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RUXUFW, SU 262A, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1558	N/A	DLA-204 H8(W)	82	Replaced	NO
Mechanical Shock	Pacific Scientific	531	N/A	DLA-204 H8(W)	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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 n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5.12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-8-88 to 4-13-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

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

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

Date 9/28/88
Sheet 1 of 1

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

Unit 2
E & S Const./WA# 470981
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

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

4. Identification of System RWCU FW, SU 262A, CLASS I

5. (a) Applicable Construction Code ASME III 19 71 Edition, TAPL W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUT	ITT GRINNELL	ITEM 1A	N/A	DLA-204 HB	83	REPAIRED	NO
HEAVY HEX NUT	ITT GRINNELL	ITEM 1B	N/A	DLA-204 HB	88	REPLACEMENT	NO

7. Description of Work REPAIRED 1 HEAVY HEX NUT WITH SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-13-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-28-88 to 5-3-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NA8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/28/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470937
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System PWCL FW, SU 262A, CLASS F
5. (a) Applicable Construction Code ASME III 1971 Edition, TR44 W92 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HANGER LOAD STUD	ITEM 13	ITT GRINNELL	N/A	DIA-204-H9 SN 2560	83	REPAIRED	NO
HANGER LOAD STUD	ITEM 13	ITT GRINNELL	N/A	DIA-204-H9 SN 2560	88	REPLACEMENT	NO
HANG HOOK NUT	ITEM 14	ITT GRINNELL	N/A	DIA-204-H9 SN 2560	83	REPAIRED	NO
HANG HOOK NUT	ITEM 14	ITT GRINNELL	N/A	DIA 204-H9 SN 2560	88	REPLACEMENT	NO

7. Description of Work REPAIRED HANGER LOAD STUD & HANG HOOK NUT w/ SAME SIZE ON SN 2560
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

5/12

19 88

Owner or Owner's Designee, Title

Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-20-88 to 3-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/25/88
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Const./WA# 470937
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System PWCU FW, S/4 262A, CLASS I
5. (a) Applicable Construction Code ASME III 19 71 Edition, TAPUW 72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HANGER LOAD STUD	ITEM 13	ITT GRINNELL	N/A	DIA 204-H9 S/N 2563	83	REPAIRED	NO
HANGER LOAD STUD	ITEM 13	ITT GRINNELL	N/A	DIA 204-H9 S/N 2563	88		NO
HANGER HEAVY HEX NUT	ITEM 14	ITT GRINNELL	N/A	DIA 204-H9 S/N 2563	83	REPAIRED	NO
HEAVY HEX NUT	ITEM 14	ITT GRINNELL	N/A	DIA 204-H9 S/N 2563	88		NO

7. Description of Work REPLACED HANGER LOAD STUD & (1) HEAVY HEX NUT w/SAME SIZE ON S/N 2563
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

5-12

19

88

Owner or Owner's Designee, Title

Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-20-88 to 3-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery
Inspector's Signature

Commissions

NB 8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470853
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System HPCI Pump Disc, SKU 252, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	9746	N/A	EBB-202 H3	79	Replaced	NO
Mechanical Shock	Pacific Scientific	23611	N/A	EBB-202 H3	81	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE -
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-22-88 to 4-6-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NJ
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 19 88

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

1. Owner Pennsylvania Power & Light Co. Date 3/14/88
Name
Two North Ninth St., Allentown, PA 18101
Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address E & S Co.ist./WA# 470874
Repar. Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CORE SPRAY BLOCK, S/N 2518, CLASS II
5. (a) Applicable Construction Code ASME III 19 71 Edition, THRU 1970 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD STUD	ITEM# 13		N/A	G88-201 H5A	1983	REPLACED	NO
LOAD STUD	13		N/A	G88-201 H5A	1988	REPLACEMENT	NO
HEAVY HEX NUTS	14		N/A	G88-201 H5A	1983	REPLACED	NO
HEAVY HEX NUTS	14		N/A	G88-201 H5A	1988	REPLACEMENT	NO

7. Description of Work REPLACED LOAD STUD WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-15-88 to 3-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18 1988

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

1. Owner Pennsylvania Power & Light Co. Date 3/15/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70892
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV II RHR LPMI SOC, 3/4 249F, CLASS II
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	3213	N/A	G88-204 H83	78	Replaced	NO
Mechanical Shock	Pacific Scientific	11023	N/A	G88-204 H83	83	Replacement	YES

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks n/a
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-15-88 to 3-18-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 18, 1988

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

1. Owner Pennsylvania Power & Light Co. Date 4/8/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const. /WA# Y70888
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System DIV I PWR LPC 150C, 54299A, CLASS IIF
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	528	N/A	GBB-206 HA	78	Replaced	NO
Mechanical Shock	Pacific Scientific	533	N/A	GBB-206 HA	78	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

Superintendent of Plant

Date

5-12

19

88

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-9-88 to 4-13-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dalton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 18 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 18101
Address

Date 3/28/88
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address

Unit 2
E & S Const./WA# 470940
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

4. Identification of System MARY STEAM 1/200/6 2830/20/6
RACE FA, SK 200A, CLASS I

5. (a) Applicable Construction Code ASME II 19 71 Edition, THRU W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
NANGER LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222-H21	83	REPLACED	NO
NANGER LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222-H21	88	REPLACEMENT	NO
HEAVY HEX NUTS (2)	ITT GRINNELL	ITEM 14	N/A	MST-222-H21	83	REPLACED	NO
HEAVY HEX NUTS (2)	ITT GRINNELL	ITEM 14	N/A	MST-222-H21	88	REPLACEMENT	NO

7. Description of Work REPLACED LOAD STUD AND 2 HEAVY HEX NUTS w/ SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

Superintendent of Plant

Date

5-12

19

88

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 3-16-88 to 3-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 4/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70993
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM, SU 262A, CLASS F
5. (a) Applicable Construction Code ASME III 19 71 Edition, INP & W 172 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUT	ITT GRINNELL	ITEM 1A	N/A	MSF-222 H33	83	REPAIRED	NO
HEAVY HEX NUT	ITT GRINNELL	ITEM 1A	N/A	MSF-222 H33	88	REPLACEMENT	NO

7. Description of Work REPLACED HEAVY HEX NUT WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12 19 88
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tillyer Commissions NB8845 Pa 2361 NI
 Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 9/22/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y 70993
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAINSTEAM, SU 262A, CLASS I
5. (a) Applicable Construction Code ASME III 1971 Edition, THRU '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAVY HEX NUT	ITT CORINNELL	ITEM 14	N/A	MSF-272 H3A	83	REPLACED	NO
HEAVY HEX NUT	ITT CORINNELL	ITEM 14	N/A	MSF-272 H3A	88	REPLACEMENT	NO

7. Description of Work REPLACED HEAVY HEX NUT WITH SAME SIZE
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that the 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 5-12, 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-16-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley Commissions NB 8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 1988

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 3/28/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470940
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System MAIN STEAM SU 283, CLASS F
5. (a) Applicable Construction Code ASME III 1971 Edition, TRUW'72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222-H36 S/N 3212	83	REPLACED	NO
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222-H36 S/N 3212	88	REPLACEMENT	NO
(2) HEAVY HEX NUTS	ITT GRINNELL	ITEM 14	N/A	MST-222-H36 S/N 3212	83	REPLACED	NO
(2) HEAVY HEX NUTS	ITT GRINNELL	ITEM 14	N/A	MST-222-H36 S/N 3212	88	REPLACEMENT	NO

7. Description of Work REPLACED LOAD STUD & (2) HEAVY HEX NUTS W/ SAME SIZE OR SU 3212
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5/12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-22-88 to 5-6-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tillery Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 18101
Address

Date 4/28/88
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address

Unit 2
E & S Const./WA# Y70940
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: Owner
Name
Address

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

4. Identification of System MAIN STEAM, SU-262A, CLASS I

5. (a) Applicable Construction Code ASME III 19 71 Edition, JANU W'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222 H36	83	REPLACED	NO
LOAD STUD	ITT GRINNELL	ITEM 13	N/A	MST-222 H36	88	REPLACEMENT	NO
HEAVY HEX NUTS (2)	ITT GRINNELL	ITEM 14	N/A	MST-222 H36	83	REPLACED	NO
HEAVY HEX NUTS (2)	ITT GRINNELL	ITEM 14	N/A	MST-222 H36	88	REPLACEMENT	NO

7. Description of Work REPLACED LOAD STUD AND TWO HEAVY HEX NUTS WITH SAME SIZE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-13-88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 22 1988 to MAR 28 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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

William P. Pogue III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 23 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 4/13/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470916
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RYP LOOPA, SU 264B, CLASS F
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	12624	N/A	RWS-200 H11	85	Replaced	X/O
Mechanical Shock	Pacific Scientific	9456	N/A	RWS-200 H11	82	Replacement	X/O

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12, 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-13-88 to 4-16-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19, 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 18101
Address

Date 3/22/88

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Perwick, PA 18603
Address

Unit 2

E & S Const. / WA# 470934
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System _____

5. (a) Applicable Construction Code ASME III 19 71 Edition, APP A'72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIVOT PIN	ITT GRINNELL #6	ITEM 6	N/A	SN 3773 PAS-200-426	1983	REPLACED	NO
PIVOT PIN	ITT GRINNELL #6	ITEM 6	N/A	SN 3773 PAS-200-426	1988	REPLACEMENT	NO

7. Description of Work REPLACED PIVOT PIN WITH SAME SIZE. ONSN 3773

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 1988
 Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period MAR 21 1988 to MAR 22 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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

William R. Rogan Commissions NB7980 PA2204 NIBS IS
 Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 23 1988

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 18101
Address

Date 4/2/88
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address

Unit 2
E & S Const./WA# 470983
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

4. Identification of System RyR LOOP B, 34264, CLASS I

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda, 1644-5 & 1686 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	538	N/A	RWS-200 H-91	78	Replaced	No
Mechanical Shock	Pacific Scientific	571	N/A	RWS-200 H-91	78	Replacement	No

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF IN-SERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-6-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 4/2/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# 470983
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RyP BLOOD, sk 264, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	539	N/A	RWS-200 HAZ.	78	Replaced	NO
Mechanical Shock	Pacific Scientific	1797	N/A	RWS-200 HAZ.	83	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12 1988
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-6-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley Commissions NB8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 1988

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co.
Name
Two North Ninth St., Allentown, PA 18101
Address

Date 4/2/88

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address

Unit 2

E & S Const./WA# 470983
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
Name
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RyP LOOP B, SKU 264, CLASS I

5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	540	N/A	RWS-200 H44	78	Replaced	NO
Mechanical Shock	Pacific Scientific	944	N/A	RWS-200 H44	80	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE
Other Pressure _____ psi Test Temp. _____ *F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A-

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 5-12 19 88
Owner or Owner's Designee, Title Superintendent of Plant

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-2-88 to 4-6-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley Commissions NO8845 Pa 2361 NI
Inspector's Signature National Board, State, Province, and Endorsements

Date May 19 19 88

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. Date 4/14/88
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E & S Const./WA# Y70916
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RXR ALCOOP, SU 264B, CLASS I
5. (a) Applicable Construction Code ASME III 19 77 Edition, thru W'77 Addenda 1644-5 & 1686 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock	Pacific Scientific	1637	N/A	RWS-200 H46	82	Replaced	NO
Mechanical Shock	Pacific Scientific	632	N/A	RWS-200 H46	79	Replacement	NO

7. Description of Work Replaced existing snubber with same size, functionally tested replacement snubber.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NONE -
 Other Pressure _____ or Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE 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

Owner or Owner's Designee, Title

Robbie
Superintendent of Plant

Date

5-13, 1988

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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, MA have inspected the components described in this Owner's Report during the period 4-14-88 to 4-15-88 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Delton E. Tilley
Inspector's Signature

Commissions

NB8845 Pa 2361 NI
National Board, State, Province, and Endorsements

Date

May 19, 1988

REACTOR
PRESSURE
VESSEL
INTERNAL
EXAMINATION

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-1
 ITEM NUMBER B13.10

A5 OF: 09/09/88

CTD	DESC	151 150	CAL BLOCK	SYSTEM LOOP	EXAM NO	ANLT SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION	NCR NO.
EXAM TYPE									
N2A UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/15/88	Y	NRI	
N2B UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/15/88	Y	NRI	
N2C UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/15/88	Y	NRI	
N2D UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/15/88	Y	NRI	
N2A UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/29/88	Y	NRI	
N2B UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/29/88	Y	NRI	
N2C UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/29/88	Y	NRI	
N2D UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV	BB2032	03/29/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-1
 ITEM NUMBER B13-10

AS OF: 09/09/88

ESD	DESC	TSI	CAL	SYSTEM	EXAM	ANIT	PROGRAM	INDICATION	NLR NO.
----	----	----	BLOCK	-----	NO	SIGN	CREDIT	RESOLUTION	-----
N4E UNCLAD AREAS VT-3	UNCLAD INT SURF	150		LOOP RPV		03/28/88	Y	NR1	
N4F UNCLAD AREAS VT-3	UNCLAD INT SURF			RPV		03/28/88	Y	NR1	

TALLY ITEM B13-10-10
 TALLY CODECAT B-N-1-10

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
 ITEM NUMBER 813.20

AS OF: 09/09/88

EXAM TYPE	DESC	151 150	CAL BLOCK	SYSTEM LOOP	EXAM NO	ANLI SIGN-OFF	PROGRAM CREDIT	INDICATION RESOLUTION	NCR NO.
N20 R15R SUP WELD A VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N20 R15R SUP WELD B VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N7C R15R SUP WELD A VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N7C R15R SUP WELD B VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N2D R15R SUP WELD A VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N2D R15R SUP WELD B VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N2E R15R SUP WELD A VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	
N2E R15R SUP WELD B VT-1	RPV BELT ATTACH	151-RPV-INT-001 SMT 4		RPV		03/28/88	Y	NR1	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
ITEM NUMBER B13.20

AS OF: 09/09/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
---	---	151	BLOCK	---	NO	SIGN-OFF	CREDIT	---	---
---	---	150	---	---	---	---	---	---	---
EXAM TYPE	---	---	---	LOOP	---	---	---	RESOLUTION	---
N2J RISH SUP WELD A VT-1	RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NR1	
N2J RISH SUP WELD B VT-1	RPV BELT ATTACH	ISI-RPV-INT-001	SHT 4	RPV		03/28/88	Y	NR1	
SURV SPEC BRKT 1B VT-1	RPV BELT ATTACH	ISI-RPV-INT-001	SHT 2	RPV		03/29/88	Y	NR1	
SURV SPEC BRKT 2B VT-1	RPV BELT ATTACH	ISI-RPV-INT-001	SHT 2	RPV		03/29/88	Y	NR1	
TALLY ITEM B13.20 12									

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
 ITEM NUMBER 013.21

AS OF: 09/09/88

CID	DESC	ISI	CAL	SYSTEM	EXAM	ANTI	PROGRAM	INDICATION	NCR NO.
----	-----	----	BLOCK	-----	NO	SIGN-OFF	CREDIT	-----	-----
EXAM TYPE				LOOP				RESOLUTION	
BAFFLE PLATE WELD VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	
		150							
N4A BRKT WELD A VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	
N4A BRKT WELD B VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	
N4B BRKT WELD A VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	
N4B BRKT WELD B VT-3	RPV ATTACH WELD	151		RPV		03/29/88	Y	NRI	
N5A BRKT WELD A VT-3	RPV ATTACH	151		RPV		03/29/88	Y	NRI	
N5A BRKT WELD B VT-3	RPV ATTACH	151		RPV		03/29/88	Y	NRI	
N5A BRKT WELD C VT-3	RPV ATTACH	151		RPV		03/29/88	Y	NRI	

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
 ITEM NUMBER B13.21

AS OF: 09/09/88

EXAM TYPE	DESC	ISI	CAL	SYSTEM	EXAM NO	ANLI SIGN-OFF	PROGRAM CREDIT	INDICATION	NER NO.
NSB BKKT WELD A VT-3	RPV ATTACH	151	LOOP	RPV		03/29/88	Y	NRI	
SURV SPEC BKKT 2A VT-3	RPV ATTACH WELD	151-RPV-INT-001	SMT 2	RPV		03/29/88	Y	NRI	
SURV SPEC BKKT 3A VT-3	RPV ATTACH WELD	151-RPV-INT-001	SMT 2	RPV		03/29/88	Y	NRI	

TALV ITEM B13.21 11

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 LIST OF EXAMS - SECOND REFUELING OUTAGE

OUTAGE SUMMARY REPORT

CODE CATEGORY B-N-2
 ITEM NUMBER B13.22

AS OF: 09/09/88

EXAM TYPE	DESC	TSI	CAL	SYSTEM	EXAM	ANLT	PROGRAM	INDICATION	NER NO.
----	----	---	BLOCK	----	NO	SIGN-OFF	CREDIT	RESOLUTION	----
BAFFLE PLATE VT-3	CORE SUPPORT	151-150		RPV		03/29/88	Y		
SHROUD SUPPORT VT-3	CORE SUPPORT	151-150		RPV		03/29/88	N		
TOP GUIDE VT-3	PLATE/ROULTS	151-150		RPV		03/28/88	Y		

TALLY ITEM B13.22.3
 TALLY CHECKAT B-N-2.26

THIS SPACE RESERVED FOR FOOTNOTES, COMMENTS, ETC.

REACTOR
PRESSURE
VESSEL
EXTERNAL
EXAMINATION

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

EXAMINATION REPORT
FOR
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION

REPORT DATE: DRAFT FOR REVIEW AND COMMENT JUNE 29, 1988

OWNER:
PENNSYLVANIA POWER and LIGHT CO.
TWO NORTH NINTH STREET
ALLENTOWN, Pa. 18101

PLANT:
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PO BOX 467
BERWICK, Pa. 18603

COMMERCIAL SERVICE DATE:
FEBRUARY 12, 1985

RATINGS:
3,293 MWt 1084.8 MWe

MANUFACTURER:
CHICAGO BRIDGE and IRON

NATIONAL BOARD NUMBER:
3687

PREPARED BY:

Wade F. Miller

WADE F. MILLER
SR. NDE SPECIALIST
GE NUCLEAR ENERGY

APPROVED BY:

Michael E. Stamm

MICHAEL E. STAMM
PROJECT MANAGER
GE NUCLEAR ENERGY

APPROVED BY:

Timothy K. Steingass

TIMOTHY K. STEINGASS
ISI SUPERVISOR
PP&L COMPANY
SUSQUEHANNA STEAM
ELECTRIC STATION

ABSTRACT

This report details the examinations performed during the Second Refueling and Inspection Outage, to comply with the requirements of the ASME Boiler and Pressure Vessel Code, 1980 Edition with Addenda through Winter 1981 supplemented by PP&L's Augmented Examination requirements.

This report contains 101 pages documenting the results of these exams.

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

TABLES OF CONTENTS

SECTION I	INTRODUCTION
SECTION II	SCOPE OF EXAMS WITH WELD LOCATION DRAWINGS
SECTION III	SUMMARY TABLES AND RECORDABLE INDICATION DATA
SECTION IV	SUMMARY REPORTS

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SECTION I
INTRODUCTION

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SECTION I

INTRODUCTION

This report contains the results of the inservice examinations performed on the Susquehanna Steam Electric Station Unit #2 Pressure Vessel, National Board No. 3687, during the second refueling and inspection outage.

The examination were performed in accordance with the requirements of:

1. The ASME Boiler and Pressure Vessel Code, 1980 Edition including addenda through Winter 1981.
 - a. Section V, Nondestructive Examination.
 - b. Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components - Division 1.
2. United States Code of Federal Regulations, Title 10 Energy
 - a. 10CFR21
 - b. 10CFR50 Appendix B
 - c. 10CFR50 Subpart 55
3. United States Nuclear Regulatory Commission Documents
 - a. Regulatory Guide 1.150 Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Examinations. Revision 1 Alternate Method.
 - b. NUREG 0619 BWR Feedwater Nozzle and Control Rod Drive Return Line Nozzle Cracking.
4. American Society for Nondestructive Testing (ASNT)
 - a. SNT-TC-1A Personnel Qualification and Certification in Non-destructive Testing, June 1980 Edition.

5. Pennsylvania Power and Light Co. ISI Program Documents

a. ISI-T-206.0

b. ISI-T-207.0

Examinations were performed on ASME Section XI Category B-A, B-D, B-F, B-G-1, B-H, B-J, and Category F Components.

Augmented examinations were performed on PP&L Category AUG-3A Components.

Remote Automatic Ultrasonic examinations were performed on accessible portions of RPV shell welds, RPV Nozzle Vessel welds, Nozzle Inside Radiused sections, and Nozzle Bore sect. listed in section II.

Manual Ultrasonic, Liquid Penetrant, Magnetic Particle, and Visual examinations were performed on the RPV Closure Head welds, RPV Closure Studs, Component Supports, Integral Attachments, and Nozzle to Safe End welds listed in section II.

Original examination and calibration data, personnel certifications, equipment and material certifications, examination procedures, drawings and data evaluations pertaining to these examinations are being retained by PP&L. These documents are available for review at the Susquehanna site.

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SECTION II

SCOPE

SUSQUEHANNA STEAM ELECTRIC STATION
 UNIT #2 RPV INSERVICE EXAMINATION
 SECOND REFUELING AND INSPECTION OUTAGE
 REPORT OF EXAMINATION RESULTS

SECTION II

SCOPE

The following items, listed by examination category were examined during the Susquehanna Unit #2 second refueling and inspection outage. The items examined and the type(s) performed are listed below. The examination results are detailed in Section III of this report. The extent of examination coverage is detailed in Section IV of this report.

I ASME SECTION XI Examination Category B-A items examined in accordance with ASME Section XI and USNRC Reg. Guide 1.150 requirements.

AA (RPV Circumferential Weld)	0° - 360°	Auto & Manual UT
AF (RPV to Flange Weld)	5° - 125°	Manual UT
AG (Top Head to Flange)	0° - 120°	Manual UT & AC MT
AH (Top Head Circumferential Weld)	0° - 120°	Manual UT
DP (Top Head Meridional Weld)	Full Length	Manual UT
DR (Top Head Meridional Weld)	Full Length	Manual UT

II ASME Section XI Examination Category B-D items examined in accordance with ASME Section XI and USNRC Reg. 1.150 requirements.

N1A (Weld & Nozzle Inside Radius)	Automatic UT
N2A (Weld & Nozzle Inside Radius)	Automatic UT
N2F (Weld & Nozzle Inside Radius)	Automatic UT
N2J (Nozzle Inside Radius)	Automatic UT
N2K (Weld & Nozzle Inside Radius)	Automatic UT

N4A (Weld & Nozzle Inside Radius)	Remote Automatic UT
N4B (Weld & Nozzle Inside Radius)	Remote Automatic UT
N4C (Weld & Nozzle Inside Radius)	Remote Automatic UT
N4D (Weld & Nozzle Inside Radius)	Remote Automatic UT
N4E (Weld & Nozzle Inside Radius)	Remote Automatic UT
N4F (Weld & Nozzle Inside Radius)	Remote Automatic UT

III. ASME Section XI Examination Category B-F items examined in accordance with ASME Section XI requirements.

N1A NOZ-SE (Nozzle to Safe End Weld)	Manual UT & LP
N2A NOZ-SE (Nozzle to Safe End Weld)	Manual UT & LP
N2F NOZ-SE (Nozzle to Safe End Weld)	Manual UT & LP
N2J NOZ-SE (Nozzle to Safe End Weld)	Manual UT & LP
N2K NOZ-SE (Nozzle to Safe End Weld)	Manual UT & LP

IV. ASME Section XI Examination Category B-G-1 items examined in accordance with ASME Section XI requirements.

RPV CLOSURE STUDE (SN #50 thru SN #76)	Manual UT
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V. ASME Section XI Examination Category B-H items examined in accordance with ASME Section XI requirements.

CG (Support Skirt to RPV Weld)	0-120 Deg.	AC MT
SB-A (Stabilizer Bracket to RPV Weld)		Visual (VT3)
SB-B (Stabilizer Bracket to RPV Weld)		Visual (VT3)

VI. ASME Section XI Examination Category B-J items examined in accordance with ASME Section XI requirements.

*N4E NOZ-SE (Nozzle to Safe End Weld)	Manual UT & AC MT
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*This examination also required by Category AUG 3A.

VII. ASME Section XI Category F items examined in accordance with ASME Section XI requirements.

RPV Support Skirt (and Associated Components)	Visual (VT3)
RPV Stabilizer "A"	Visual (VT3)
RPV Stabilizer "B"	Visual (VT3)

VIII. PP&L Examination Category AUG 3A items examined in accordance with USNRC NUREG-0619 requirements.

N4A (Nozzle Inside Radius & Nozzle Bore)	Automated UT
N4A (Nozzle to Safe End Weld)	Manual UT
N4B (Nozzle Inside Radius & Nozzle Bore)	Automatic UT
N4B (Nozzle to Safe End Weld)	Manual UT
N4C (Nozzle Inside Radius & Nozzle Bore)	Automatic UT
N4C (Nozzle to Safe End Weld)	Manual UT
N4D (Nozzle Inside Radius & Nozzle Bore)	Automatic UT
N4D (Nozzle to Safe End Weld)	Manual UT
N4E (Nozzle Inside Radius & Nozzle Bore)	Automatic UT
N4E (Nozzle to Safe End Weld)	Manual UT & AC MT
N4F (Nozzle Inside Radius & Nozzle Bore)	Automatic UT
N4F (Nozzle to Safe End Weld)	Manual UT

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SECTION III
SUMMARY TABLES

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS
EXAMINATION CATEGORY B-A

CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
REACTOR VESSEL CIRCUMFERENTIAL SHELL WELD	(AA) 0° - 360° ASME XI	B 1.11	(MANUAL) TP-ISI-403 REV 1 (AUTOMATIC) TP-ISI-421 REV 1	0° WM C 45° C 60° C 0° WM R 45° R 60° R	NRI NRI NRI NRI NRI NRI	BOTTOM SIDE EXAMINED ALONG WITH THE RESTRICTED AREAS OF THE TOP SIDE EXAM. TOP SIDE EXAMINED. SEE SKETCHES IN DATA PACKAGES FOR SCANNING RESTRICTIONS.
	(AA) 0° - 360° REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 1.11	(MANUAL) TP-ISI-403 REV 1 (AUTOMATIC) TP-ISI-421 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	
	(AA) 0° - 360° REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 1.11	(MANUAL) TP-ISI-403 REV 1 (AUTOMATIC) TP-ISI-421 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

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NT= NONTRAVELING INDICATION PER REG GUIDE 1.150

CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
REACTOR VESSEL TO FLANGE WELD	(AF) 5° - 125°	B 1.30	TP-ISI-403 REV 1	0° WM R	NRI	ONE SIDED EXAM DUE TO FLANGE CONFIGURATION.
	ASME XI		TP-ISI-423 REV 0	45° R 60° R	NRI NRI	
	(AF) 5° - 125°	B 1.30	TP-ISI-403 REV 1	45° T	NRI	1 GEOMETRIC FLANGE SEAL SURFACE EXAM
	REG GUIDE 1.150 INNER 25% OF RPV THICKNESS			NT	NRI	
			60° T	NRI		
			NT	NRI		
	(AF) 5° - 125°	B 1.30	TP-ISI-403 REV 1	45° T	NRI	
	REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS			NT	NRI	
			60° T	NRI		
			NT	NRI		

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CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
CLOSURE HEAD TO FLANGE WELD	(AG) 0° - 120°	B 1.40	TP-ISI-403 REV 1	0° WM R	6 ACCEPTABLE LAMINAR INDICATIONS NRI FULL VEE EXAMS PERFORMED TO GIVE MAXIMUM FEASIBLE ANGLE BEAM EXAM COVERAGE. 6 CLUSTERED INDICATIONS SEE NCR 88-176	
	ASME XI			45° R		
				60° R		
				NMTWD-1 REV 0		AC MT
	(AG) 0° - 120°	B 1.40	TP-ISI-403 REV 1	45° T	NRI	
	REG GUIDE 1.150 INNER 25% OF RPV THICKNESS				NT	NRI
				60° T	NRI	
					NT	NRI
	(AG) 0° - 120°	B 1.40	TP-ISI-403 REV 1	45° T	NRI	
	REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS				NT	NRI
				60° T	NRI	
					NT	NRI

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CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
CLOSURE HEAD DOLLAR PLATE	(AH) 0° - 120°	B 1.21	TP-ISI-403 REV 1	0° WM 45° 60°	NRI NRI NRI	EXAM OF DOLLAR PLATE SIDE.
	ASME XI			0° WM 45° 60°	NRI ID GEOMETRIC NRI	EXAM OF RADIAL PLATE SIDE.
	(AH) 0° - 120° REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 1.21	TP-ISI-403 REV 1	45° T	NRI	
				60° T	NRI	
	(AH) 0° - 120° REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 1.21	TP-ISI-403 REV 1	45° T	NRI	
				60° T	NRI	

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CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
CLOSURE HEAD MERIDIONAL WELD	(DP) WELD LENGTH ASME XI	B 1.22	TP-ISI-403 REV 1	0° WM 45° 60°	20 ACCEPTABLE LAMINAR INDICATIONS NRI NRI
	(DP) WELD LENGTH REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 1.22	TP-ISI-403 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI
	(DP) WELD LENGTH REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 1.22	TP-ISI-403 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI

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CATEGORY B-A
PRESSURE RETAINING WELDS IN REACTOR VESSEL

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
CLOSURE HEAD MERIDIONAL WELD	(DR) WELD LENGTH	B 1.22	TP-ISI-403 REV 1	0° WM C	7 ACCEPTABLE LAMINAR INDICATIONS
	ASME XI			45° C	NRI
				60° C	NRI
	(DR) WELD LENGTH	B 1.22	TP-ISI-403 REV 1	45° T	NRI
	REG GUIDE 1.150			NT	NRI
	INNER 25% OF RPV THICKNESS			60° T	NRI
				NT	NRI
	(DR) WELD LENGTH	B 1.22	TP-ISI-403 REV 1	45° T	NRI
	REG GUIDE 1.150			NT	NRI
	OUTER 75% OF RPV THICKNESS			60° T	NRI
				NT	NRI

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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY B-D

CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC1	NIA ASME XI	B 3.90	TP-ISI-412 REV 1	0° WM R 45° R 60° R	NRI NRI NRI	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
NOZ-IR	NIA IR	B 3.100	TP-ISI-411 REV 1	IR ZONE 1 C	NRI	
	NIA REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI 1 SPOT NRI 1 SPOT	
	NIA REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	

PENNSYLVANIA POWER AND LIGHT COMPANY
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UNIT #2 INSERVICE EXAMINATION

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC1	N2A ASME XI	B 3.90	TP-ISI-412 REV 1	0° WM R 45° R 60° R	NRI NRI 1 SPOT	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
NOZ-IR	N2A-IR	B 3.100	TP-ISI-411 REV 1	IR ZONE 1	NRI	
	N2A REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	
	N2A REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI 1 SPOT NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC1	N2F	B 3.90	TP-ISI-412 REV 1	0° WM R	NRI	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
	ASME XI			45° R	NRI	
				60° R	NRI	
NOZ-IR	N2F-IR	B 3.100	TP-ISI-411 REV 1	IR ZONE 1 C	NRI	
	N2F	B 3.90	TP-ISI-412 REV 1	45° T	NRI	
	REG GUIDE 1.150 INNER 25% OF RPV THICKNESS			NT	NRI	
				60° T	NRI	
				NT	NRI	
	N2F	B 3.90	TP-ISI-412 REV 1	45° T	NRI	
	REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS			NT	NRI	
				60° T	NRI	
				NT	NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO VESSEL NOZ-IR	N2J ASME XI	B 3.100	TP-ISI-411 REV 1	IR C ZONE 1	NRI

PENNSYLVANIA POWER AND LIGHT COMPANY
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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC1 NOZ-IR	N2K ASME XI N2K-IR	B 3.90 B 3.100	TP-ISI-412 REV 1 TP-ISI-411 REV 1	0° WM R 45° R 60° R IR C ZONE 1	NRI NRI NRI NRI	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
	N2K REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI 1 SPOT NRI NRI	
	N2K REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL	N4A			0° WM R	1 SPOT	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. EXAM ALSO RESTRICTED BY THE N11A NOZZLE. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE. N11A INTERFERENCE APPLICABLE TO BOTH N-V AND IR EXAMS.
NOZ-SC3	ASME XI	B 3.90	TP-ISI-412 REV 1	45° R	1 SPOT	
				60° R	NRI	
NOZ-IR	N4A-IR	B 3.100	TP-ISI-411 REV 1	IR R ZONE 1	NRI	
	N4A			45° T	NRI	
	REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	NT	NRI	
				60° T	NRI	
				NT	NRI	
	N4A			45° T	NRI	
	REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	NT	1 SPOT	
				60° T	NRI	
				NT	NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC3	N4B ASME XI	B 3.90	TP-ISI-412 REV 1	0° WM R 45° R 60° R	9 SPOTS 1 SPOT NRI	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
NOZ-IR	N4B-IR	B 3.100	TP-ISI-411 REV 1	IR C ZONE 1	NRI	
	N4B REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	
	N4B REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	1 SPOT NRI NRI NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO VESSEL NOZ-SC3	N4C ASME XI	B 3.90	TP-ISI-412 REV 1	0° WM R 45° R 60° R	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. 60° EXAM WAS LIMITED IN THE AREA OF THE N9 NOZZLE. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
NOZ-1R	N4C-1R	B 3.100	TP-ISI-411 REV 1	IR C ZONE 1	
	N4C REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI 1 SPOT NRI 1 SPOT
	N4C REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC3 NOZ-IR	N4D ASME XI N4C-IR	A 3.90 B 3.100	TP-ISI-412 REV 1 TP-ISI-411 REV 1	0° WM R 45° R 60° R IR R ZONE 1	12 SPOTS NRI NRI NRI	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. EXAM ALSO LIMITED DUE TO THE N11B NOZZLE. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE. INTERFERENCE FROM N11B APPLIES TO BOTH N-V AND IR EXAMS.
	N4D REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	
	N4D REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS	
NOZZLE TO VESSEL NOZ-SC3	N4E ASME XI	B 3.90	TP-ISI-412 REV 1	0° WM R 45° R 60° R	18 SPOTS NRI NRI	EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE.
NOZ-IR	N4E-IR	B 3.100	TP-ISI-411 REV 1	IR C ZONE 1	NRI	
	N4E REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI 1 SPOT NRI 2 SPOTS	
	N4E REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI NRI NRI NRI	

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CATEGORY B-D
FULL PENETRATION WELDS OF NOZZLES IN VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO VESSEL NOZ-SC3	N4F ASME XI	R 3.90	TP-ISI-412 REV 1	0° WM R 45° R 60° R	2 SPOTS EXAMINED FROM ONE SIDE ONLY DUE TO CONFIGURATION. SEE SKETCHES IN DATA PACKAGES FOR EXTENT OF EXAM COVERAGE. NRI NRI
NOZ-IR	N4F-IR	R 3.100	TP-ISI-411 REV 1	IR C ZONE 1	NRI
	N4F REG GUIDE 1.150 INNER 25% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	1 SPOT NRI NRI NRI
	N4F REG GUIDE 1.150 OUTER 75% OF RPV THICKNESS	B 3.90	TP-ISI-412 REV 1	45° T NT 60° T NT	NRI 1 SPOT NRI NRI

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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY B-F

CATEGORY B-F
PRESSURE RETAINING DISSIMILAR METAL WELDS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO SAFE END WELD	N1A NOZZLE TO SAFE END SIDE ASME XI	B 5.10	NUT-2 REV 0	45° C	NRI
	N1A SAFE END TO NOZZLE SIDE ASME XI	B 5.10	NUT-1 REV-0	45° C	NRI
	N1A NOZ-SE SURFACE EXAM ASME XI	B 5.10	NLP-1 REV 3	LP	1 LINEAR INDICATION SEE NCR 88-0129 FOR DISPOSITION.

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

NRI= NO RECORDABLE INDICATIONS
C= COMPLETE EXAM
R= RESTRICTED EXAM

CATEGORY B-F
PRESSURE RETAINING DISSIMILAR METAL WELDS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO SAFE END WELD	N2A NOZZLE TO SAFE END SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2A SAFE END TO NOZZLE SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2A NOZ-SE SURFACE EXAM ASME XI	B 5.10	NLP-1 REV 3	LP	NRI

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CATEGORY B-F
PRESSURE RETAINING DISSIMILAR METAL WELDS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO SAFE END WELD	N2F NOZZLE TO SAFE END SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2F SAFE END TO NOZZLE SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2F NOZ-SE SURFACE EXAM ASME XI	B 5.10	NLP-1 REV 3	LP C	NO RELEVANT INDICATIONS. A MECHANICAL DEPRESSION WAS NOTED VISUALLY DURING PRE-EXAM PREPARATIONS. THE INDICATION WAS DETERMINED TO BE ACCEPTABLE PER THE REQUIREMENTS OF ESD-1.

PENNSYLVANIA POWER AND LIGHT COMPANY
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UNIT #2 INSERVICE EXAMINATION

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CATEGORY B-F
PRESSURE RETAINING DISSIMILAR METAL WELDS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO SAFE END WELD	N2J NOZZLE TO SAFE END SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2J SAFE END TO NOZZLE SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2J NOZ-SE SURFACE EXAM ASME XI	B 5.10	NLP-1 REV 3	LP C	NRI

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PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

CATEGORY B-F
PRESSURE RETAINING DISSIMILAR METAL WELDS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO SAFE END WELD	N2K NOZZLE TO SAFE END SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2K SAFE END TO NOZZLE SIDE ASME XI	B 5.10	NUT-1 REV 0	45° C	NRI
	N2K NOZ-SE SURFACE EXAM ASME XI	B 5.10	NLP-1 REV 3	LP C	NRI

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PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY B-G-1

CATEGORY B-G-1
PRESSURE RETAINING BOLTING > 2" IN DIAMETER

COMPONENT	ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
RPV CLOSURE STUDS	SN50 - SN76 (27 STUDS) ASME XI	B 6.20	NUT-8 REV 0	0° C ZONED EXAM	NRI

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SUSQUEHANNA STEAM ELECTRIC STATION
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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY B-H

CATEGORY R-H
INTEGRAL ATTACHMENTS FOR VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
SUPPORT SKIRT TO RPV	CG 0-120 DEG ASME XI	B R.10	NMTWD-1 REV 0	AC MT C	NRI EXAM INCLUDED ACCESSIBLE PORTION OF KNUCKLE BUILD-UP ON HEAD. THIS WELD IS IDENTIFIED AS FR.

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

NRI= NO RECORDABLE INDICATIONS
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R= RESTRICTED EXAM

CATEGORY B-H
INTEGRAL ATTACHMENTS FOR VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
STABILIZER BRACKET TO RPV	SB-A	B B.10	NVT-G.1 REV 1	VT-1 R	NRI ONLY A PARTIAL EXAMINATION IS POSSIBLE DUE TO INSULATION SUPPORT BRACKETS.

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

NRI= NO RECORDABLE INDICATIONS
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CATEGORY B-H
 INTEGRAL ATTACHMENTS FOR VESSELS

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
STABILIZER BRACKET TO RPV	SR-B	B B.10	NVT-G.1 REV 1	VT-1 R	NRI ONLY A PARTIAL EXAMINATION IS POSSIBLE DUE TO INSULATION SUPPORT BRACKETS.

PENNSYLVANIA POWER AND LIGHT COMPANY
 SUSQUEHANNA STEAM ELECTRIC STATION
 UNIT #2 INSERVICE EXAMINATION

NRI= NO RECORDABLE INDICATIONS
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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY B-J

CATEGORY B-J
PRESSURE RETAINING WELDS IN PIPING

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
NOZZLE TO SAFE END WELD (DOUBLE WELD)	N4E NOZZLE TO SAFE END SIDE ASME XI	B 9.11	NUT-2 REV 0	45° C	NRI
	N4E SAFE END TO NOZZLE SIDE ASME XI	B 9.11	NUT-2 REV 0	45° C	NRI
	N4E NOZ-SE SURFACE EXAM ASME XI	B 9.11	NMTWD-1 REV 0	AC MT C	NRI

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
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NRI= NO RECORDABLE INDICATIONS
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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY F

CATEGORY F
PLATE AND SHELL TYPE SUPPORTS

COMPONENT	ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
SUPPORT RING BOLTING	BOLTING ● 0° - 120°	F1.10	NVT-G.3 REV 1	VT-3 C	NRI
SKIRT BASE PLATE BOLTING	BOLTING ● 0° - 120°	F1.30	NVT-G.3 REV 1	VT-3 C	NRI
SKIRT BASE PLATE ASSEMBLY WELDS	CK CM CN	F1.30	NVT-G.3 REV 1	VT-3 C	NRI
SKIRT SHELL ASSEMBLY WELDS	CA CB CE CT* CW*	F1.30	NVT-G.3 REV 1	VT-3 C	NRI * WELDS CT AND CW WERE EXAMINED FROM 0° - 120°
COMPONENT'S GENERAL CONDITION	AREA FROM 0° - 120°	F1.40	NVT-G.3 REV 1	VT-3 C	NRI THERE WAS NO INDICATION OF ABNORMAL DEGRADATION OF THIS COMPONENT

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

NRI = NO RECORDABLE INDICATIONS
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CATEGORY F
 LINEAR TYPE SUPPORTS

COMPONENT	ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
RPV STABILIZER	STABILIZER A	F1.10	NVT-G.3 REV 1	VT-3 R	NRI
RPV STABILIZER	STABILIZER B	F1.30	NVT-G.3 REV 1	VT-3 F	NRI

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PENNSYLVANIA POWER AND LIGHT COMPANY
 SUSQUEHANNA STEAM ELECTRIC STATION
 UNIT #2 INSERVICE EXAMINATION

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
EXAMINATION CATEGORY AUG 3 (PP&L)

CATEGORY AUG 3A
EXAMINATIONS REQUIRED BY NUREG 0619

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
INSIDE RADIUS SECTION	N4A IR NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 2 C	NRI
NOZZLE BORE	N4A-BORE NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 3 C	NRI
NOZZLE TO SAFE END (DOUBLE WELD)	N4A-SE NUREG 0619	N/A	NUT-2 REV 0	45° C NOZZLE TO SAFE END 45° C SAFE END TO NOZZLE	NRI NRI

PENNSYLVANIA POWER AND LIGHT COMPANY
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UNIT #2 INSERVICE EXAMINATION

NRI = NO RECORDABLE INDICATIONS
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CATEGORY AUG 3A
EXAMINATIONS REQUIRED BY NUREG 0619

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
INSIDE RADIUSED SECTION	N4R IR NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 2 R	NRI EXAM LIMITED DUE TO LOCATION OF THERMOCOUPLE PADS IN THE SCANNING PATH.
NOZZLE BORE	N4B-BORE NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 3 R	NRI EXAM LIMITED DUE TO LOCATION OF THERMOCOUPLE PADS IN THE SCANNING PATH.
NOZZLE TO SAFE END (DOUBLE WELD)	N4B-SE NUREG 0619	N/A	NUT-2 REV 0	45° C NOZZLE TO SAFE END 45° (C) SAFE END TO NOZZLE	NRI NRI

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UNIT #2 INSERVICE EXAMINATION

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CATEGORY AUG 3A
EXAMINATIONS REQUIRED BY NUREG 0619

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
INSIDE RADIUS SECTION	N4C IR NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 2 C	NRI
NOZZLE BORE	N4C-BORE NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 3 C	NRI
NOZZLE TO SAFE END (DOUBLE WELD)	N4C-SE NUREG 0619	N/A	NUT-2 REV 0	45° C NOZZLE TO SAFE END 45° C SAFE END TO NOZZLE	NRI NRI

PENNSYLVANIA POWER AND LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 INSERVICE EXAMINATION

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CATEGORY AUG 3A
EXAMINATIONS REQUIRED BY NUREG 0619

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
INSIDE RADIUS SECTION	N4D IR NUREG 0619	N/A	TP-ISI-411 REV 1	IR R ZONE 2	NRI EXAM LIMITED DUE TO LOCATION OF THERMOCOUPLE PADS IN THE SCANNING PATH.
NOZZLE BORE	N4D-BORE NUREG 0619	N/A	TP-ISI-411 REV 1	IR R ZONE 3	NRI EXAM LIMITED DUE TO LOCATION OF THERMOCOUPLE PADS IN THE SCANNING PATH.
NOZZLE TO SAFE END (DOUBLE WELD)	N4D-SE NUREG 0619	N/A	NUT-2 REV 0	450 C NOZZLE TO SAFE END 450 (C) SAFE END TO NOZZLE	NRI NRI

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UNIT #2 INSERVICE EXAMINATION

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CATEGORY AUG 3A
EXAMINATIONS REQUIRED BY NUREG 0619

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
INSIDE RADIUS SECTION	N4E IR	N/A	TP-ISI-411 REV 1	IR ZONE 2 C	NRI
	NUREG 0619				
NOZZLE BORE	N4E-BORE	N/A	TP-ISI-411 REV 1	IR ZONE 3 C	NRI
	NUREG 0619				
NOZZLE TO SAFE END (DOUBLE WELD)	N4E-SE	N/A	NUT-2 REV 0	45° C NOZZLE TO SAFE END	NRI
	NUREG 0619			45° C SAFE END TO NOZZLE	NRI

NUREG 0619

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PENNSYLVANIA POWER AND LIGHT COMPANY
 SUSQUEHANNA STEAM ELECTRIC STATION
 UNIT #2 INSERVICE EXAMINATION

CATEGORY AUG 3A
EXAMINATIONS REQUIRED BY NUREG 0619

WELD TYPE	WELD ID	ITEM NO.	PROCEDURE	EXAM	REMARKS
INSIDE RADIUS2D SECTION	N4F IR NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 2 C	NRI
NOZZLE BORE	N4F-BORE NUREG 0619	N/A	TP-ISI-411 REV 1	IR ZONE 3 C	NRI
NOZZLE TO SAFE END (DOUBLE WELD)	N4F-SE NUREG 0619	N/A	NUT-2 REV 0	45° C NOZZLE TO SAFE END 45° C SAFE END TO NOZZLE	NRI NRI

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SUSQUEHANNA STEAM ELECTRIC STATION
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SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SECTION IV

REPORTS

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SUMMARY REPORT #1

Summary Report USNRC REGULATORY GUIDE 1.150 REPORT OF EXAMINATION
Number 1: RESULTS FOR SUSQUEHANNA UNIT 2 INSERVICE EXAMINATION.

USNRC Regulatory Guide 1.150, Revision 1, Alternate Method requires that ultrasonic examinations performed on reactor pressure vessels be performed and documented in a manner that will allow meaningful comparison of data gathered during successive examinations. This report documents the steps taken by General Electric to assure that the data gathered during the Susquehanna Unit 2 Inservice Ultrasonic Examination meets the intent of Reg. Guide 1.150.

Ultrasonic Examinations during the Susquehanna Unit 2, Second refueling and Inspection outage were performed as composite examinations; that is, part of the examination was performed utilizing remote automatic examination equipment, and part was performed using manual examination equipment. This report addresses each section of Reg. Guide 1.150 as it affects both types of examination equipment. Data gathered supporting the conclusions presented in this report is on file at the Site.

The results of the examination are reported in tabular form with evaluations. The examination data from which the tables were assembled is stored at the site.

Ultrasonic Examination Procedure TP-ISI-400 Revision 1, contains the Reg. Guide 1.150 compliance activities performed by General Electric during the Susquehanna Unit 2 Inservice Examination. This report contains the documentation required by TP-ISI-400. The examination was performed in accordance with the requirements of ASME Section XI 1980 Edition, Winter 1981 Addenda; supplemented by TP-ISI-400.

INSPECTION SYSTEM PERFORMANCE CHECKS

The Pre-Exam Performance Checks specified in Paragraph 1.1 of the Reg. Guide Alternate Method were not performed for the Susquehanna Unit 2 Inservice Examination. These checks are identical to the Field Performance Checks required by Paragraph 1.2 of the Alternate Method and were performed at the job site. General Electric's Quality Assurance requirements do not allow performance checks performed up to six months in advance of an examination to constitute Quality Assurance records for the project; therefore, these checks, if performed, could not become a part of the records package.

The Field Performance Checks specified in Paragraph 1.2 of the Reg. Guide Alternate Method were performed for both automatic and manual examination equipment. The methods used to perform these checks varied to accommodate differences in examination systems. The required checks were performed as follows:

AUTOMATED EQUIPMENT

RF Wave Form and frequency amplitude information for transducers used during the automatic ultrasonic examination is a computer generated data sheet. The frequency amplitude information appears in the print out on the data sheet. The reflector used to generate the analyzed signal was the 4" radius reflector in an A-36 carbon steel IIW-1 reference block for angle beam search units. Data for straight beam search units was generated from a back reflection signal from a suitable reference block. The reflector used is documented on each data sheet. The signal was obtained by mounting the transducer in the package (shoe) in the position it was to be used (i.e., 0 degrees, 45 degrees, 60 degrees) and manually manipulating the package to obtain a peak signal amplitude. The signal was then fed through an Adaptronics ALN-4060 microprocessor to obtain the analysis. Frequency amplitude records for the search units used during the automatic ultrasonic examinations are on file at the Site. These files contain both the data obtained before the examination began and that obtained after completion of the automatic examinations.

MANUAL EQUIPMENT

RF Wave Form and frequency amplitude information for transducers used during the manual examinations is a computer-generated data sheet. Frequency amplitude information appears as a printout on the data sheet. The data sheet displays a digitized RF wave form and gating information. The reflector used to generate the analyzed signal was the 4" radius reflector in an A-36 carbon steel IIW-1 reference block for angle beam search units. Data for straight beam search units was generated from a back reflection signal from a suitable reference block. The reflector used is documented on each data sheet. The data for each transducer or transducer/wedge combination was obtained by manually manipulating the search unit to obtain a peak signal amplitude from the reflector. This signal was processed through an Adaptronics ALN-4060 microprocessor to obtain the analysis. Data sheets for the search units used during the manual ultrasonic examinations are on file at the Site. These files contain both the data obtained before the examination began and that obtained after completion of the manual examinations.

Screen Height Linearity Data and Amplitude Control Linearity Data for both automatic and manual examination systems was recorded daily as a minimum. General Electric examination procedures governing these ultrasonic examinations require these checks to appear on the calibration data sheets. The calibration data sheets are not an attachment to this report; they are, however, available in the Inservice Examination records.

Angle Beam Profile Characterization was performed for each automatic examination package and each manual examination transducer/wedge combination used during the ultrasonic examination of RPV welds. The data for automatic examination packages was gathered using an automated calibration scanning mechanism. The data for manual search units was gathered using manual techniques. The beam profile data does not appear as an attachment to this report; it is, however, available in the Inservice Examination records.

CALIBRATION

Calibrations for the Automatic Examination System were performed in accordance with either Procedure TP-ISI-421 for Vessel Assembly Welds or Procedure TP-ISI-412 for Nozzle to Vessel Welds. Each calibration of the examination system was performed using a mechanized calibration scanner that operates in a manner that duplicates the essential variables of the mechanized examination scanner.

The scanning speed set by the operator for the examination scanner was, per procedure, limited to the scanning speed set for the calibration scanner.

The direction(s) of scanning during calibrations trace (forward) and retrace (backward) are verified during the system calibration. If, for example, a valid calibration is obtained for both trace and retrace modes, examination data may be gathered in both the forward and backward directions. If a valid calibration for only one direction was obtained then examination data was only gathered in the direction of the valid calibration.

Calibrations for the Manual Examination System(s) were performed in accordance with Procedure TP-ISI-403 for Nozzle to Vessel and Vessel Assembly Welds, and procedure TP-ISI-423 for 0 degree Examination from the RPV Flange Sealing Surface. These manual examination procedures use static calibration methods. The signals were maximized during both calibration and examination. Calibrations were verified at scanning speed.

Calibration Configurations for both automatic and manual examination systems were performed in accordance with the applicable examination procedure. In all cases, the procedural requirements equal or exceed those specified in ASME Section V, Article 4, Paragraph T-433.

There was no use of electronic simulators or off-site system calibrations during the Susquehanna Unit 2 Inservice Examination.

Calibration Blocks for the Susquehanna Unit 2 Inservice Examination were furnished by the Owner. These blocks were fabricated in accordance with ASME Section XI, Appendix 1, 1974 Edition, Winter 1975 Addenda requirements. No alternate calibration blocks or new conventional blocks were used during this Inservice Examination.

EXAMINATION

Examination Scope and Extent are specified in the Susquehanna Unit 2 Inspection Plan ISI-207.0 Revision 0. Minor interferences occurred during the examination due to RPV design considerations. The interferences were analyzed and their effect on examination coverage documented.

The examination was performed in accordance with written procedures. The procedures contain requirements for electronic gating and transducer scanning overlap. The procedural requirements are in accordance with Reg. Guide 1.150 requirements.

Internal Surface Examination Capabilities for both automatic and manual examination systems were demonstrated by detection of the ASME 2% ID notch during calibration. No alternate reflectors were utilized for this examination. The referenced 1" of the RPV wall measured perpendicularly to the clad/base metal interface was examined. See Recording and Sizing Section for details.

Scanning Weld-Metal Interface. The ultrasonic examination procedures developed by General Electric for preservice inspection of the Susquehanna Unit 2 RPV utilize the ASME Section V, Article 4 specified beaming angles of 0 degrees, 45 degrees, and 60 degrees. The ability of these beaming angles to detect unfavorably-oriented planar flaws was demonstrated. See Recording and Sizing Section for details.

RECORDING AND SIZING

The Capability of the Ultrasonic Examination Procedures utilized during the Susquehanna Unit 2 Inservice Examination to detect, record, and size the flaws delineated by Section XI was demonstrated and documented as follows:

Automatic Examination Procedures TP-ISI 412 and TP-ISI-421 were demonstrated on site by performing a successful calibration utilizing the calibration scanner, remote data system (Blue Box), and a Calibration Standard 1. The ability to detect ASME Code flaws was determined in San Jose, California and at a BWR site using a specially fabricated test standard. The results of this testing are on file at the Site. The referenced ASME Code flaws were detected and recorded.

Manual Examination Procedure TP-ISI-403 was demonstrated on site by performing successful calibrations for a variety of thicknesses utilizing manual examination equipment and the Calibration Standard applicable to the thickness being examined. The ability to detect ASME Code flaws was determined on site using a specially fabricated test standard. The results of this testing are on file at the Site. The referenced ASME Code flaws were detected and recorded.

Geometric Indications were evaluated by a certified Level III individual. Evaluations were performed using vessel design drawings, finger dampening, and other commonly used techniques. Geometric indications detected during the examination are listed in the detailed summary of the examination.

Indications With Changing Metal Paths were recorded at 20% DAC. Indication sizing and evaluations were determined by the location of the indication. Evaluations of these indications were performed by a certified Level III individual in accordance with Paragraph 6.2 of Reg. Guide 1.150, Revision 1, Alternate Method. In all cases, the most conservative size for an indication was used. The Summary Tables detail the indications found.

Indications Without Changing Metal Paths were recorded at 20% DAC. Indication sizing and evaluations were determined by the location of the indication. Evaluations of these indications were performed by a certified Level III individual in accordance with paragraph 6.3 of Reg. Guide 1.150, Revision 1, Alternate Method. The Summary Tables detail indications found.

REPORTING OF RESULTS

All original records generated during the Susquehanna Unit 2 Inservice Examination have been transmitted to PP&L for retention. A final report has been transmitted to PP&L for use during subsequent Inservice Inspection activities.

No indications were detected that require reporting as abnormal degradation of the Reactor Pressure Boundary in accordance with Reg. Guide 1.16.

The Estimate of the Sizing Tolerances for both automatic and manual examination equipment is as follows:

Automatic Examination Equipment Error Band	= 45 Degrees	5.4% t
for inner 1/4 t.	= 60 Degrees	2.4% t

Manual Examination Equipment Error Band	=	5.1% t
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Estimate of Unexamined Volumes for both automatic and manual examinations are as follows:

1) Volume Affected by near field effects.

Automatic Examination	.500 beneath the transducer package
Manual Examination	.500 beneath the wedge

2) Unexamined volume due to clad to base metal interface.

Automatic Examination	None
Manual Examination	None

3) Volume Shadowed by laminar defects.

Automatic Examination	None determinable, no indications with total loss of back reflection
Manual Examination	None determinable, no indications with total loss of back reflection

4) Volumes unexamined due to vessel configuration.

Some unexamined volume exists for both the automatic and manual examinations. Report #2 details these unexamined volumes and their effect on the examination.

5) Unexamined volumes near the clad ID surface.

Automatic Examination	None determinable, artificial flaws at interface were detected
Manual Examination	None determinable, artificial flaws at interface were detected

6) Volumes affected by electronic gating.

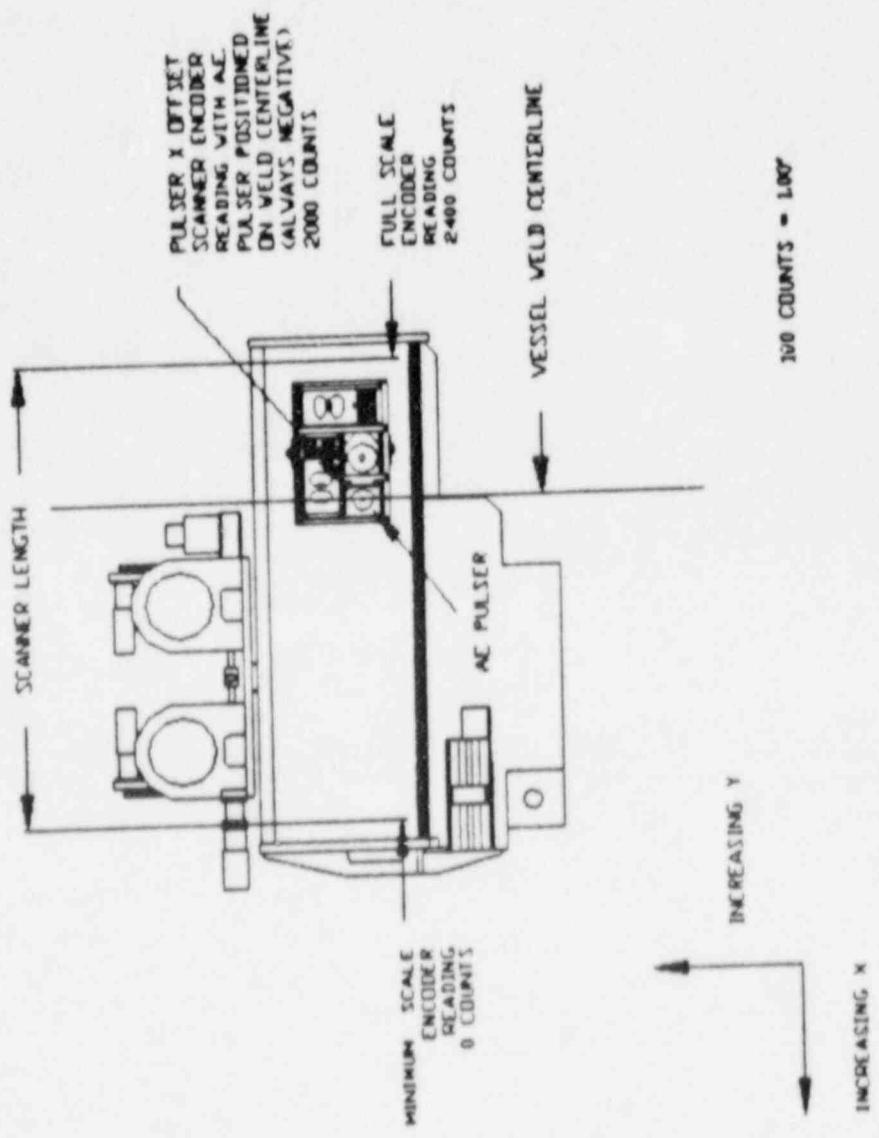
Automatic Examination	None determinable, entire thickness was within the gates
Manual Examination	No electronic gating was used

Sketches of Automatic Examination Equipment for use by reviewers is included with this report. No sketches of manual examination equipment are included since the equipment consisted of standard catalogue items needing no such sketches to allow review.

No alternate volumetric examinations were used during the Inservice Examination of Susquehanna Reactor Pressure Vessel Assembly Welds.

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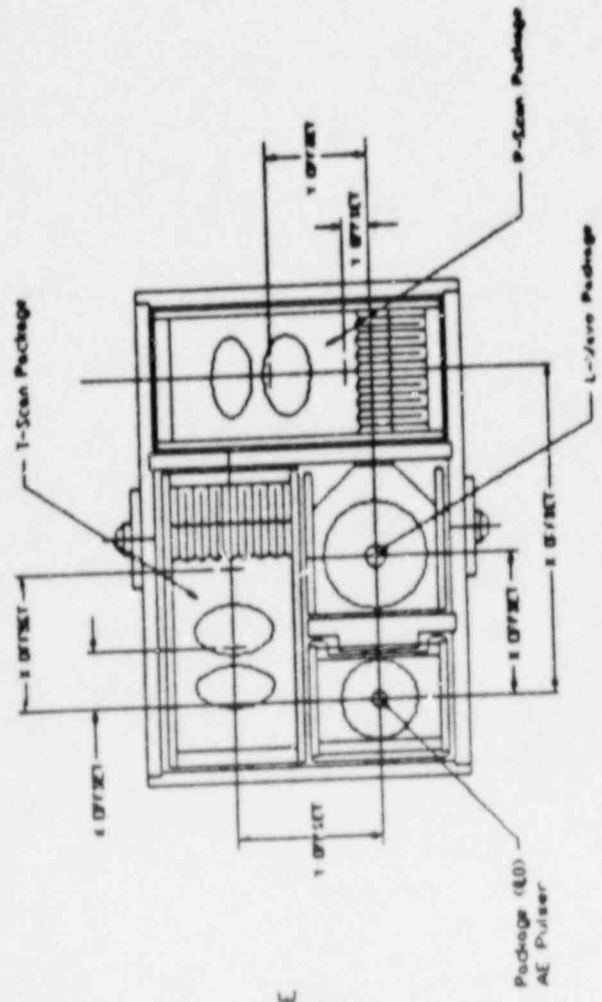
ayer 6



VESSEL MODE
SETUP PARAMETERS

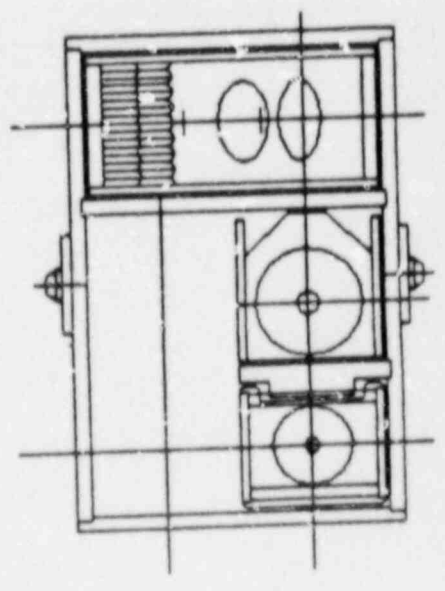
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VESSEL PACKAGE
NORMAL P-SCAN

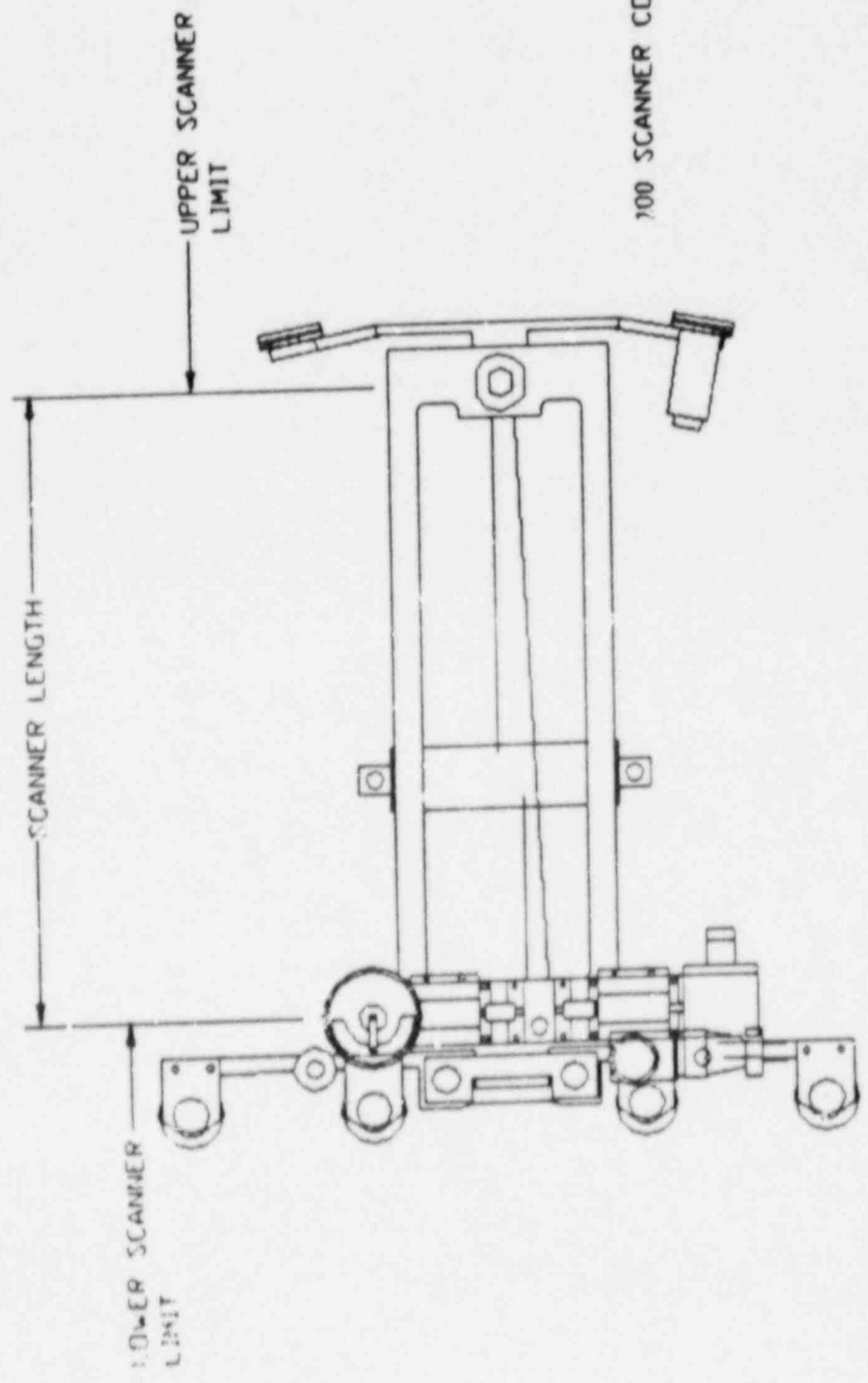
VESSEL PACKAGE OFFSETS



REVERSE P-SCAN

11 2609,22 4626

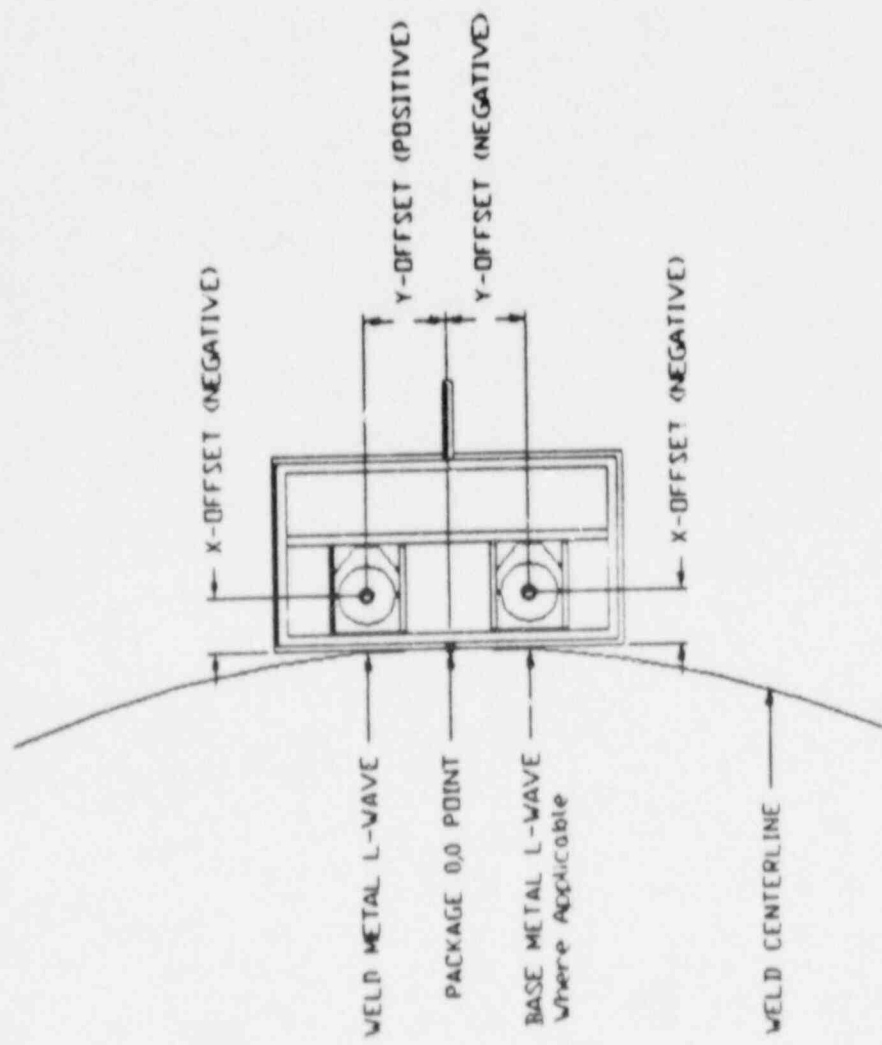
ayer TEXT



NOZZLE TRACTOR & ARM

21.0000, -2.7788

ayer L-WAVE

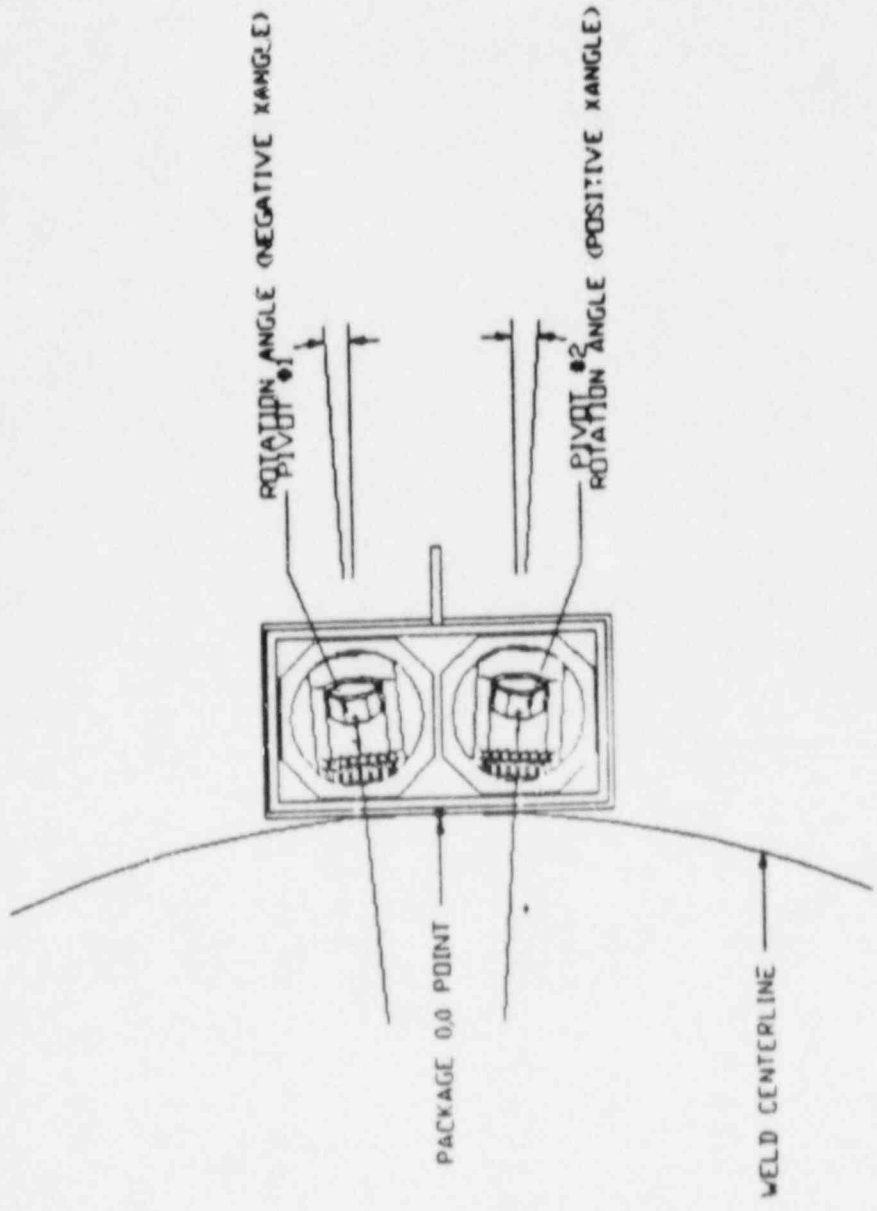


NOZZLE L-WAVE SCAN

PACKAGE OFFSETS

31.1004, 0.6716

Layer 1 PLAN

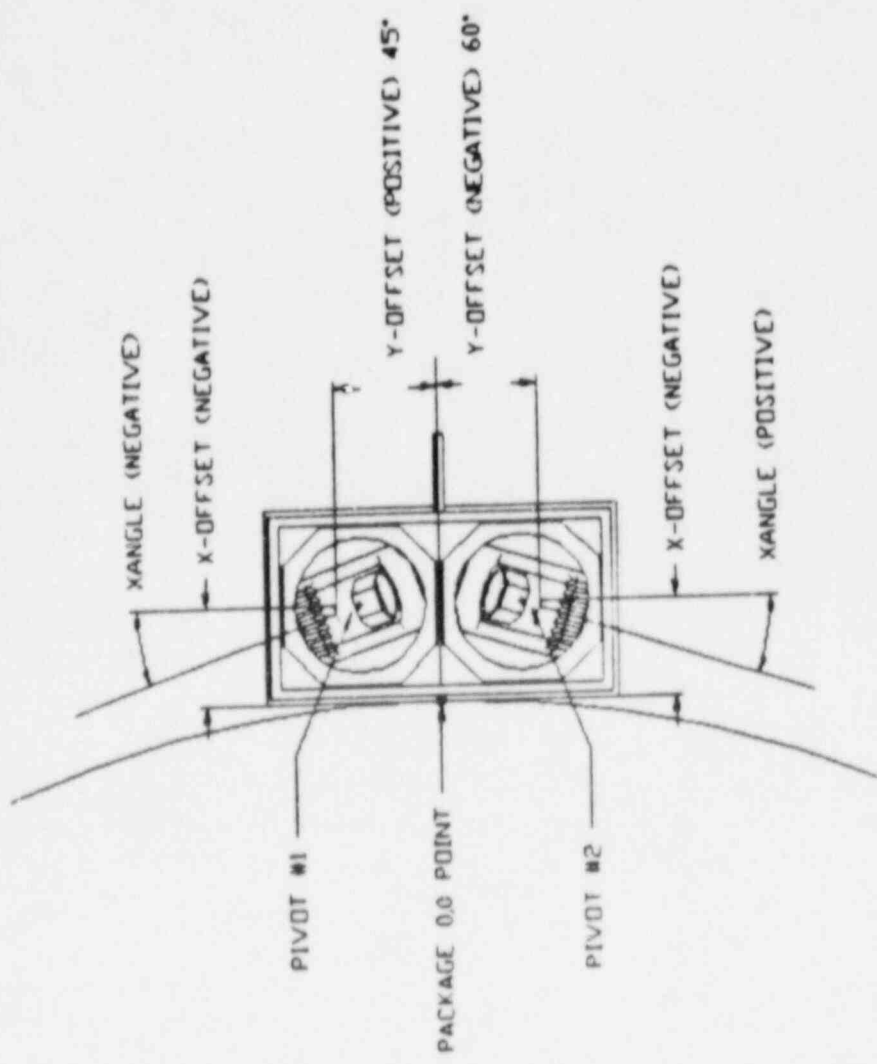


NOZZLE T
ROTATION ANGLES



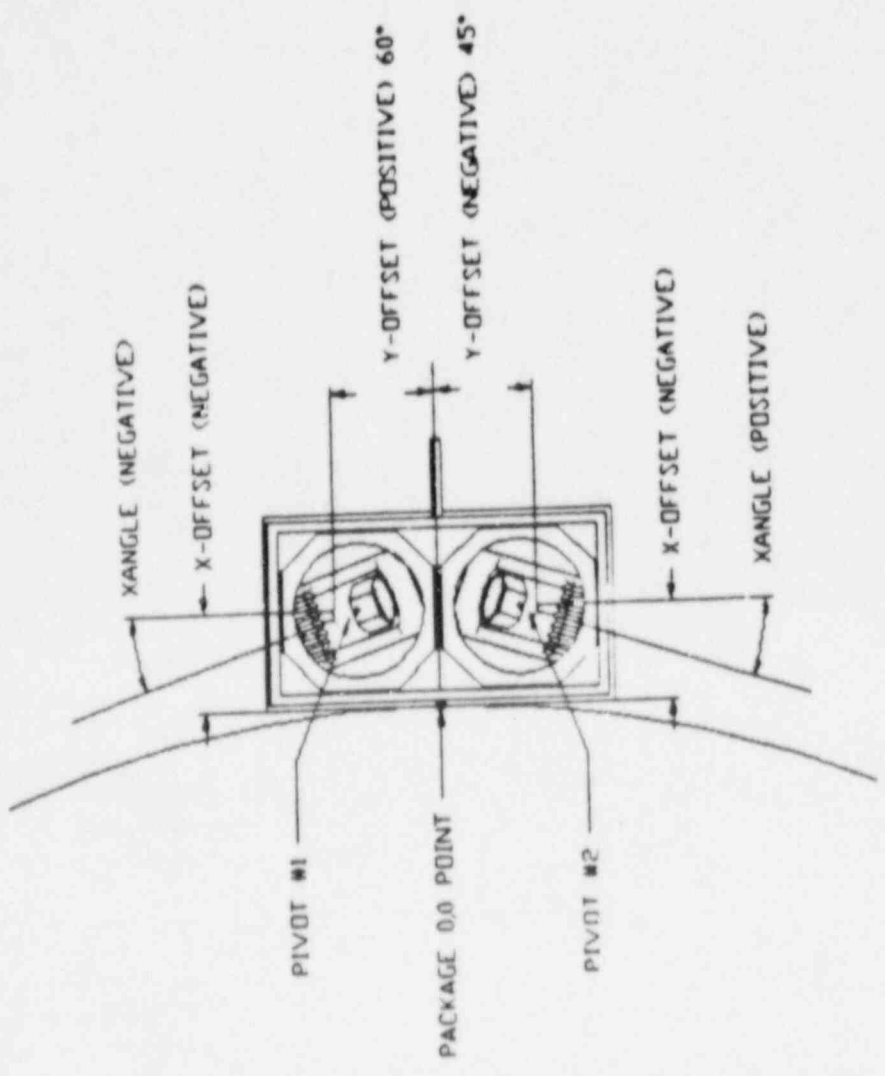
54-7676-1-5264

ayer NOZ-P1



NOZZLE P1
NOZZLE PIVOT POINT OFFSETS
(CENTERED PIVOT)

NOZZLE P2
REV 10-61, 9-6228



NOZZLE P2
NOZZLE PIVOT POINT OFFSETS
(CENTERED PIVOT)

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SUMMARY REPORT #2

Summary Report
Number 2:

REPORT OF EXAMINATION COVERAGE

This report details the extent of examination coverage for each item examined during the Susquehanna Unit 2 Second Refueling and Inspection Outage. Where an interference to an examination existed, the effect of the interference was calculated as a percentage missed. The interferences are documented in the Exam Data for the component.

The report provides a list of the welds examined, the examination techniques used, the calculations of the areas examined in accordance with Section XI requirements, and calculations of unexamined volumes.

The configuration of the Unit 2 RPV and associated components precluded examination of portions of several items. This report provides details about the interferences and any measures taken to reduce their effect.

In areas where only partial examination (less than 100% coverage for 45 degree and 60 degree examinations) is possible, no examination credit is taken; even though the area was examined to the maximum extent possible. This yields conservative percentages on calculations of unexamined volumes. These areas are noted as partially examined without credit. The percentage of partial examination is shown for each affected item.

CATEGORY B-A

PRESSURE RETAINING WELDS IN REACTOR VESSEL

CIRCUMFERENTIAL WELD SEAM AA

AA TOP SIDE

Remote Automatic Examination Coverage

There were four (4) interferences on weld seam AA top that caused missed areas during the remote automatic examination. These were:

Nozzle N1A	From X = 810.4°	To X = 30.0°	Total of 56.0°
Nozzle N1B	From X = 389.6°	To X = 449.5°	Total of 59.9°
Nozzle N8A	From X = 236.1°	To X = 257.2°	Total of 21.1°
Nozzle N8B	From X = 652.6°	To X = 674.6°	Total of 22.0°

Total Missed Area = 159.0°

The circumference of weld seam AA is 836.4°.

These interferences caused 19.0% (159.0°) of weld seam AA top to be missed during the remote automatic examination.

Manual Examination of Interference Areas

The four (4) areas missed due to Nozzle Interferences were manually examined to reduce the percentage of unexamined volume on weld seam AA top side. The interferences to automatic examination caused by Nozzles M8A and M8B do not exist for manual examination techniques. These areas (45.1" total) were completely examined in accordance with Section XI Requirements. The interferences to automatic examination from Nozzles M1A and M1B also affected manual examination of these areas. The interferences caused these areas to be examined from one side only for a distance of 34". A total of 68" of weld length received the one sided examination.

Composite (Automatic & Manual) Coverage of Weld Seam AA Top Side

Partial angle beam coverage, (82% for 45 degree and 80% for 60 degree T scans) of the areas near nozzles M1 and M1B is possible. 8.1% (68") of AA Top Side was examined from one side due to the interferences.

AA BOTTOM SIDE

Remote Automatic Examination

Not Performed

Manual Examination Coverage

No interference, 100% of the Section XI required examination for AA Bottom Side was performed manually.

Summary of Weld Seam AA Examination

95.9% of weld seam AA was completely examined in accordance with Section XI requirements. 4.1% of weld seam AA was partially examined without credit. Total Code examination coverage for weld seam AA equals 95.9%.

VESSEL TO FLANGE WELD AF

Manual Examination Coverage

AF TOP SIDE

Examination of weld seam AF from the top side was performed for the flange sealing surface. There were no interferences to this examination.

AF BOTTOM SIDE

There were three (3) interferences on weld seam AF bottom that caused missed areas (see Figure 1) during the manual examination. These were:

Thermocouple Pad From X = 839.50" To X = 2.5" Total of 5"
Thermocouple Pad From X = 312.10" To X = 317.1" Total of 5"
Thermocouple Pad From X = 626.60" To X = 631.6" Total of 5"

Total Missed Area = 15"

The circumference of weld seam AF is 841.9".

The interferences caused 1.8% (15") of weld seam AF bottom to be missed during the manual examination.

Summary of Weld Seam AF Examination

98.2% of weld seam AF was completely examined in accordance with Section XI Requirements. 1.8% of AF cannot be examined.

CLOSURE HEAD TO FLANGE WELD SEAM AG

Manual Examination Coverage

Weld seam AG was examined from 0 - 120 degrees azimuth, by manual examination techniques from one side only. Two sided examination of this weld configuration is not feasible. The one sided examination was performed using a Full Vee technique to increase coverage to the maximum feasible volume. 45 degree coverage was 90% complete and 60 degree coverage was *72% complete. In addition to Ultrasonic Examination, a surface (MT) examination was performed per Section XI Figure IWB-2500-5.

CLOSURE HEAD CIRCUMFERENTIAL WELD SEAM AH

Manual Examination Coverage

Weld seam AH was examined 100% by manual examination techniques in accordance with Section XI Requirements.

CLOSURE HEAD MERIDIONAL (SIDE PLATE) WELD SEAMS DP and DR

Manual Examination Coverage

Weld seams DP and DR were examined 100% by manual examination techniques in accordance with Section XI Requirements.

CATEGORY B-D

Full Penetration Welds of Nozzles in Vessels

The following full penetration nozzle to vessel welds and Inside Radii (Zone 1) were examined. These items were examined from the shell side only using remote automatic techniques. See Attachment 1 for details.

N1A Weld	79.3% coverage per ASME XI requirements
N1A IR	100% coverage per ASME XI requirements

N2A Weld	77.6% coverage per ASME XI requirements	
N2A IR	100% coverage per ASME XI requirements	
N2F Weld	77.6% coverage per ASME XI requirements	
N2F IR	100% coverage per ASME XI requirements	
N2K Weld	77.6% coverage per ASME XI requirements	
N2K IR	100% coverage per ASME XI requirements	
N2J IR	100% coverage per ASME XI requirements	
N4A Weld	65.3% coverage per ASME XI requirements	
N4A IR	84.2% coverage per ASME XI requirements	
Interference from Nozzle N11A. See Exam Data for details.		84.2%
of the circumference was scanned for both N-V and IR exams.		
N4B Weld	77.6% coverage per ASME XI requirements	
N4B IR	100% coverage per ASME XI requirements	
N4C Weld	77.1% coverage per ASME XI requirements	
N4C IR	100% coverage per ASME XI requirements	
Interference from nozzle N9. See Exam Data for details. A short scanner arm was used on 8.1% of the circumference for N-V exams.		
N4D Weld	66.9% coverage per ASME XI requirements	
N4D IR	86.2% coverage per ASME XI requirements	
Interference from Nozzle N11B. See Exam Data for details.		86.2%
of the circumference was scanned for both N-V and IR exams.		
N4E Weld	77.6% coverage per ASME XI requirements	
N4E IR	100% coverage per ASME XI requirements	
N4F Weld	77.6% coverage per ASME XI requirements	
N4F IR	100% coverage per ASME XI requirements	

CATEGORY B-F

PRESSURE RETAINING DISSIMILAR METAL WELDS

The following dissimilar metal Nozzle to Safe End welds were examined with volumetric (Ultrasonic) and surface (Liquid Penetrant) techniques:

N1A N - SE

N2A N - SE

N2F N - SE

N2J N - SE

N2K N - SE

These examinations were completed with 100% coverage per ASME XI requirements.

CATEGORY B-G-1

PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER

The following RPV Closure Studs were examined, in place, with a volumetric (Ultrasonic) technique. The studs were examined 100% per ASME XI requirements.

SN50 through SN76

CATEGORY B-H

INTEGRAL ATTACHMENTS FOR VESSELS

The following integrally welded attachments to the RPV were examined using either a Surface (AC Magnetic Particle) or a Visual (VT-1) technique.

Weld CG	0 - 120 degrees azimuth	100% ASME coverage
Support skirt to RPV	AC MT	
SB-A	* Bracket Weld	75% ASME coverage
Stabilizer Bracket to RPV weld	VT-1	
SB-B	* Bracket Weld	75% ASME coverage
Stabilizer Bracket to RPV weld	VT-1	

* The Section XI required Surface Exam could not be performed due to interference from structural members. A VT-1 Visual Examination was performed in lieu of the Surface Exam.

CATEGORY B-J

PRESSURE RETAINING WELDS IN PIPING

The following similar metal Nozzle to Safe End (Double weld due to a Safe End Replacement) was examined using Volumetric (UT) and Surface (AC MT) techniques.

N4E NOZ-SE	* Nozzle to Safe End Welds	UT 100% ASME coverage
		AC MT 100% ASME coverage

* NOTE: Examination of these welds is also required by NUREG - 0619 (PP&L Category AUG 3A).

CATEGORY F

COMPONENT SUPPORTS FOR LIGHT-WATER COOLED POWER PLANTS

The following Plate and Shell and Linear Types of supports were examined using a Visual (VT-3) technique. See Exam Data for details.

RPV Support Skirt and its associated Components	From 0 - 120 degrees azimuth	100% ASME coverage
RPV Stabilizer "A"	Stabilizer	100% ASME coverage
RPV Stabilizer "B"	Stabilizer	100% ASME coverage

PP&L EXAMINATION CATEGORY AUG 3A

NUREG - 0619 REQUIRED EXAMS

The following Nozzle Inside Radii, Nozzle Bores, and Nozzle to Safe End welds were examined using a Volumetric (UT) technique. These exams were performed using either Remote Automatic or Manual examination techniques as applicable.

N4A IR	Zone 2	AUTO UT	360 degrees examined
N4A Bore	Zone 3	AUTO UT	360 degrees examined
N4A NOZ-SE		MANUAL UT	360 degrees examined

N4B IR	Zone 2	AUTO UT	296 degrees examined
N4B Bore	Zone 3	AUTO UT	304 degrees examined
N4B NOZ-SE		MANUAL UT	360 degrees examined

Zone 2 and Zone 3 exams were restricted due to interference from thermocouple pads located in the scanning area.

N4C IR	Zone 2	AUTO UT	360 degrees examined
N4C Bore	Zone 3	AUTO UT	360 degrees examined
N4C NOZ-SE		MANUAL UT	360 degrees examined

N4D IR	Zone 2	AUTO UT	301 degrees examined
N4D Bore	Zone 3	AUTO UT	304 degrees examined
N4D NOZ-SE		MANUAL UT	360 degrees examined

Zone 2 and Zone 3 exams were restricted due to interference from thermocouple pads located in the scanning area.

N4E IR	Zone 2	AUTO UT	360 degrees examined
N4E Bore	Zone 3	AUTO UT	360 degrees examined
N4E NOZ-SE		MANUAL UT	360 degrees examined

N4F IR	Zone 2	AUTO UT	360 degrees examined
N4F Bore	Zone 3	AUTO UT	360 degrees examined
N4F NOZ-SE		MANUAL UT	360 degrees examined

Summary Report EFFECTS OF RPV NOZZLE CONFIGURATIONS ON ASME XI,
 Number 2: CATEGORY B-D WELD EXAMINATIONS
 Attachment # 1

This report is presented to document the effect of the Susquehanna Unit 2 RPV nozzle configurations on the ASME Section XI Category B-D Ultrasonic Examinations required to be performed during the First 10 Year Inspection Interval.

The Susquehanna Unit #2 RPV contains 30 nozzles requiring ultrasonic examination under Code Category B-D. These nozzles are fabricated from six basic forging configurations. The configurations and the nozzles fabricated from them are:

Type "A"	30.082"	nominal OD	N1 A and B
Type "B"	27.281"	nominal OD	N3 A, B, C and D
Type "C"	14.250"	nominal OD	N2 A, B, C, D, E, F, G, H, J and K N4 A, B, C, D, E and F N5 A and B N17 A, B, C and D
Type "D"	9.250"	nominal OD	N6 A and B (closure head)
Type "E"	6.250"	nominal OD	N8 A and B N9
Type "F"	6.250"	nominal OD	N7 (closure head)

The basic nozzle configurations are shown, by type, in Figures 1 through 6.

Each of the basic nozzle configurations has the same limiting factor to the examination of the attachment weld. The factor is the radius on the nozzle side of the weld centerline. The radius causes the search unit to lift (lose contact) as it crosses the centerline. The lifting of the search unit affects the "T" scan (transverse to the weld), the "P" scan (parallel to the weld), and the 0 degree Weld Metal scans on all 30 nozzles.

The examination of 24 nozzles will be performed using remote automatic examination equipment. The remaining six nozzles will be manually examined. The nozzle configuration had the greatest effect on the remote automatic examinations. This is due to the requirement that the search unit (package) inward movement during scanning be terminated prior to damaging the scanner. The scans are considered to terminate an average of .5" from the weld centerline, on the vessel side of the weld, unless otherwise noted. This stopping point is considered to provide the examination of the maximum feasible volume on an otherwise unrestricted nozzle to vessel weld. When factors such as weld reinforcement make it necessary to terminate the scan at a point farther from the weld centerline, the actual termination points will be noted on the data sheets.

In a case such as this, the actual scan termination points would be used to calculate the unexamined volumes. It should be noted that all of the calculations that follow show the coverage of the weld obtained by scanning in one direction only. It is not possible to obtain two directional coverage of this weld configuration.

Figures 7 through 12 show the unexamined volume due to the nozzle configuration for each nozzle type. The calculations were made treating the sound beam as a single ray, taking no credit for beam spreading. This treatment yields a conservative result. The calculations are based on the 45 degree and 60 degree beaming angles used at Susquehanna.

In this report, unexamined volume is considered to be the portion that is interrogated by neither beaming angle. Partially examined volume is the portion that is interrogated by the 60 degree beaming angle only. Fully examined volume is the portion that is interrogated by both the 45 degree and 60 degree beaming angles. It is important to note here that the examinations were performed from the shell side of the weld only due to the referenced nozzle configurations.

Calculations of the average unexamined, partially examined and fully examined volumes for 'T' scans of the six nozzle forging types are as follows:

Figure 7	Type 'A'	Fully Examined
		79.29%
	30.081" OD	Partially Examined
		9.80%
	N1 Nozzles	Unexamined
		10.91%
Figure 8	Type 'B'	Fully Examined
		73.26%
	27.281" OD	Partially Examined
		9.30%
	N3 Nozzles	Unexamined
		17.44%
Figure 9	Type 'C'	Fully Examined
		77.55%
	14.250" OD	Partially Examined
		10.80%
	N2 Nozzles	Unexamined
	N4 Nozzles	11.65%
	N5 Nozzles	
	N17 Nozzles	
Figure 10	Type 'D' *	Fully Examined
		72.36%
	9.250" OD	Partially Examined
		9.67%
	N6 Nozzles	Unexamined
		17.97% **

Figure 11	Type 'E'	Fully Examined
	6.250" OD	78.22%
	N8 Nozzles	Partially Examined
	N9 Nozzle	7.65%
		Unexamined
		14.13%
Figure 12	Type 'F'	Fully Examined
	6.250" OD	76.24%
	N7 Nozzle	Partially Examined
		7.27%
		Unexamined
		16.49%

- * Restriction varies.
- ** Worst Case calculation

In all six nozzle forging configurations, 'P' scans and 0 degree Weld Metal scans were not performed on the nozzle side of the weld. The unexamined volume for these scans is approximately 50% for all nozzle configurations.

DISCUSSION

Both ASME Section XI and ASME Section V recognize that not all configurations of weldments can be completely examined. Section V, Article 4, Paragraph T-441.4.4 states that, wherever feasible, the weld should be scanned from both sides on the same surface. When this is physically impossible due to the configuration of the weldment, the restriction is to be noted in the report of the examination.

As shown in Figures 7 through 12, the Category B-D nozzle-to-vessel welds were examined from one side only due to the configuration. The partial examination is considered to satisfy Section V, Article 4 examination requirements, since 100% of the volume that could be examined (feasible) was examined, however ASME XI requires that the volume shown in the IWB-2500 figures be completely examined. This ambiguity in wording could necessitate a 'Request For Relief' in accordance with USNRC requirements.

Due to the radius, alternate beaking angles offered no appreciable increase in examination volume. Full Vee Path calibrations and examinations were not performed due to both the inherently long metal paths involved and the inability to accurately predict the reflected angle of the sound beam when going through the vessel cladding.

The examination coverage of Category B-D welds, obtained on Susquehanna Unit 2, is equivalent to that obtained on other reactors having these nozzle configurations. The inner 25% of T was examined with both 45 and 60 degree beaking angles on all nozzle configurations. The inner 25% of T is considered to be the most critical area of the RPV by USNRC Regulatory Guide 1.150.

NOT TO SCALE

TYPE "A" NOZZLE FORGING
30.002" NOMINAL O.D.
NOZZLE SIDE RADIUS 4.875"
NOZZLES W1 A AND W1 B
RECIRCULATION OUTLET

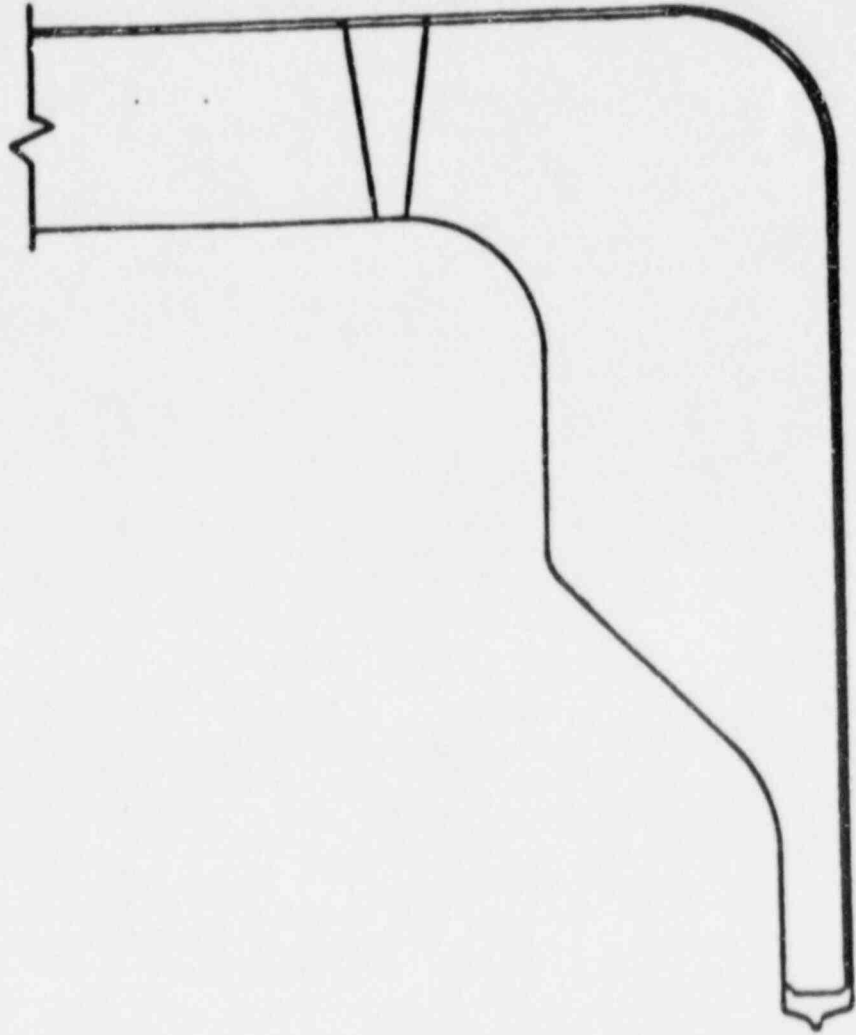


FIGURE 1

NOT TO SCALE

TYPE "B" NOZZLE FORGING
27.281" NOMINAL O.D.
NOZZLE SIDE RADIUS 4.062"
NOZZLES IN A THROUGH IN J D
STEAM OUTLET

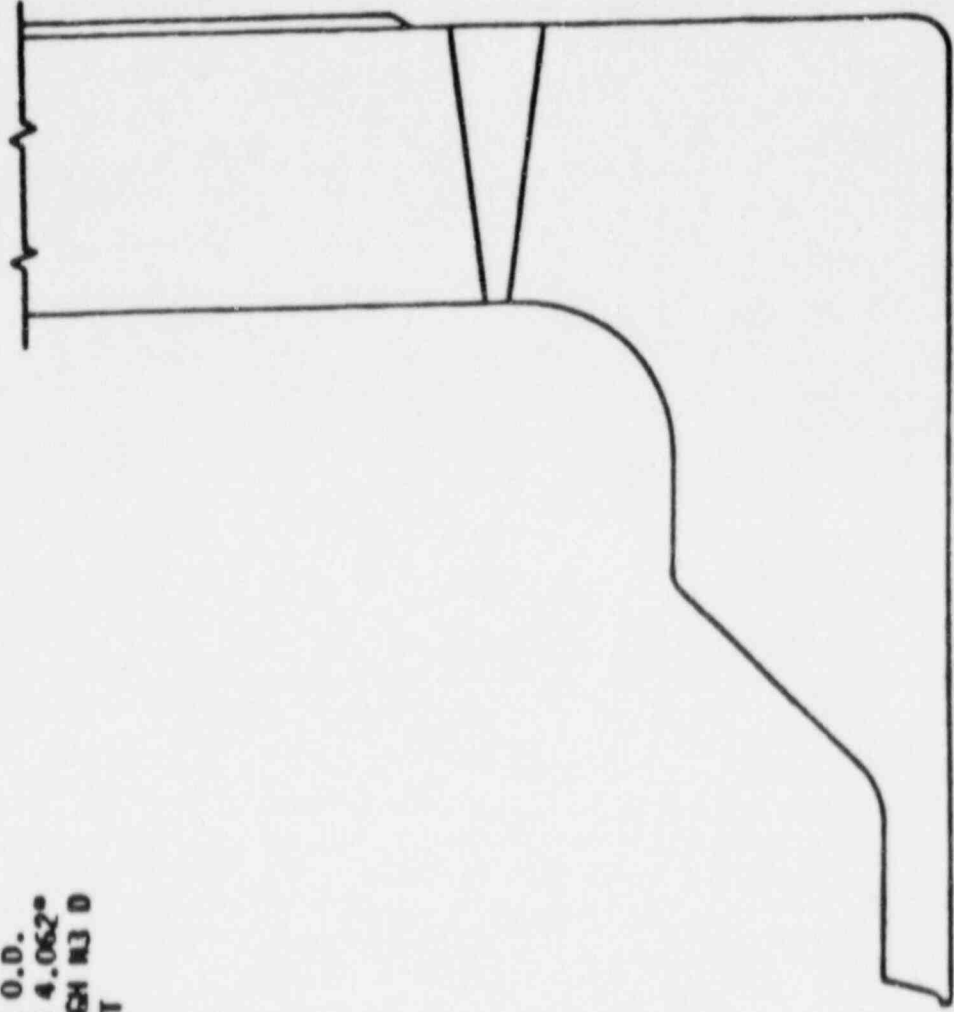


FIGURE 2

TYPE "C" NOZZLE FORGING
14.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 3.562"
NOZZLES N2 A THROUGH N2 K
RECIRCULATION INLET

N4 A THROUGH N4 F
FEEDWATER INLET

N5 A AND N5 B
CORE SPRAY INLET

N17 A THROUGH N17 D
LOW-PRESSURE COOLANT INJECTION

NOTE: FEEDWATER NOZZLES ARE
NOT CLADDED.

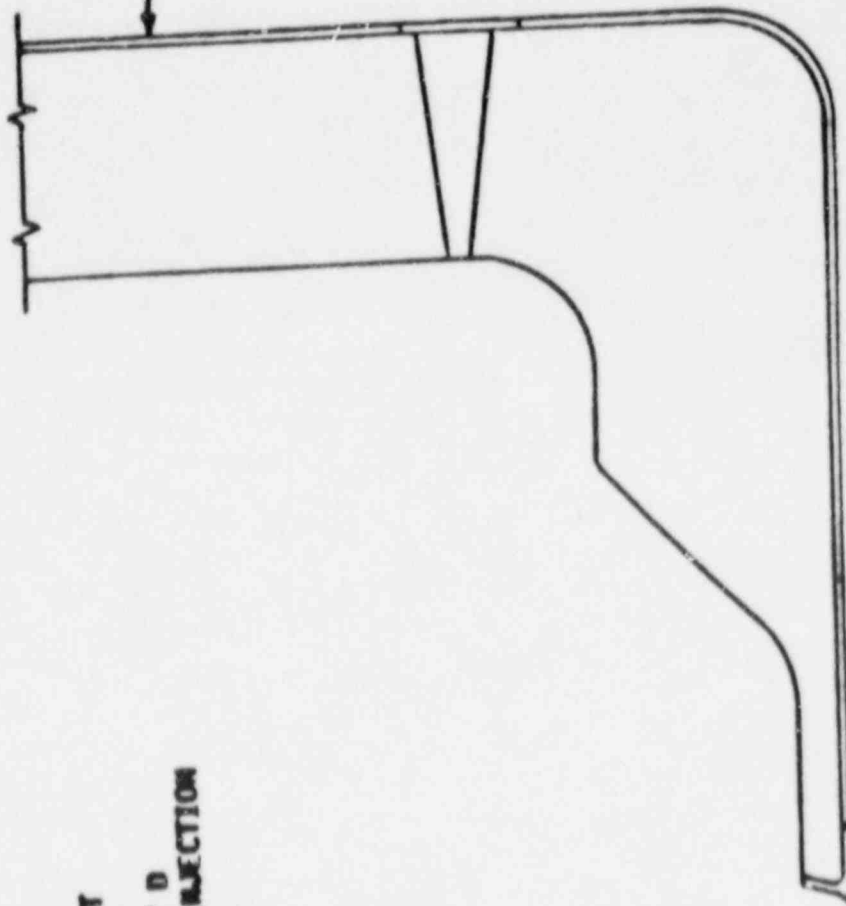


FIGURE 3

NOT TO SCALE

TYPE "0" NOZZLE FORGING
9.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 1.750" - 2.750"
NOZZLES M6 A MID M6 B
HEAD INSTRUMENTATION AND HEAD SPARE

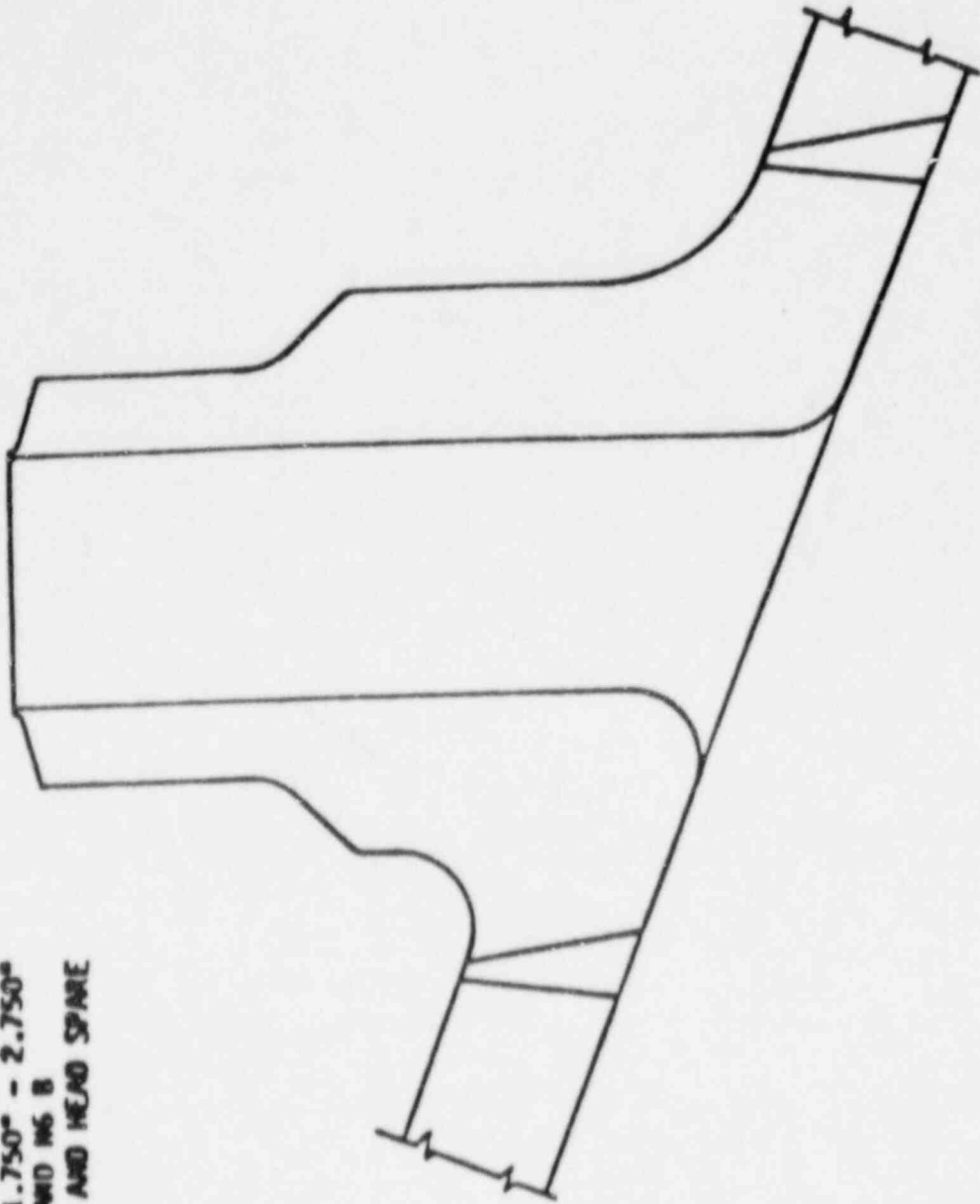


FIGURE 4

NOT TO SCALE

TYPE "E" NOZZLE FORGING
6.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 3.125"
NOZZLES MB A AND MB B
JET PUMP INSTRUMENTATION

NOZZLE #9
CONTROL ROD DRIVE RETURN

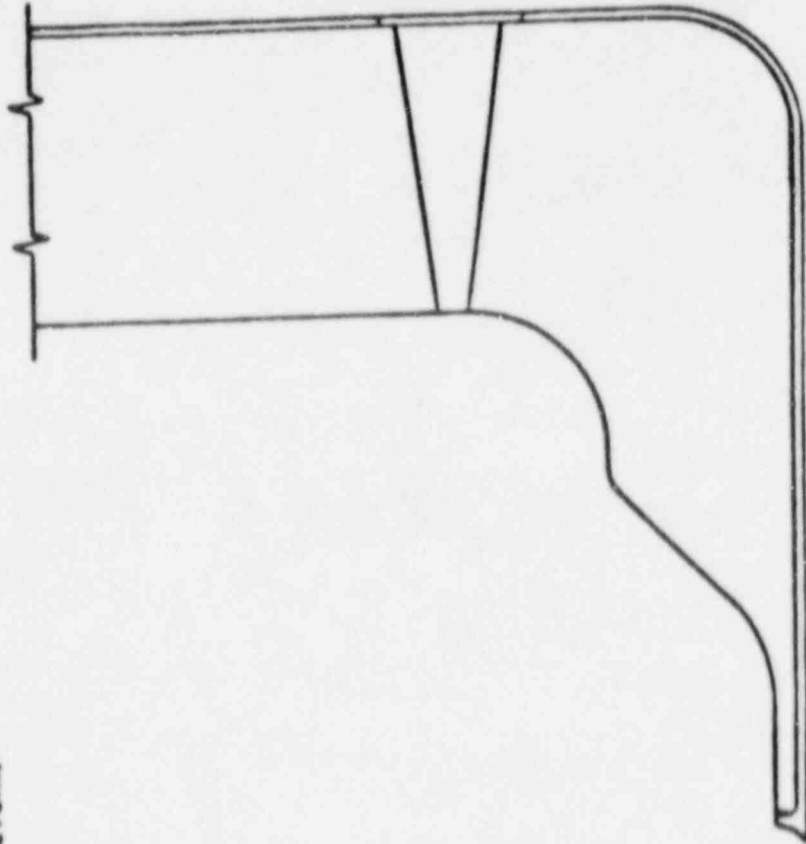


FIGURE 5

NOT TO SCALE
TYPE "F" NOZZLE FORGING
6.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 1.625"
NOZZLE N7
HEAD VENT

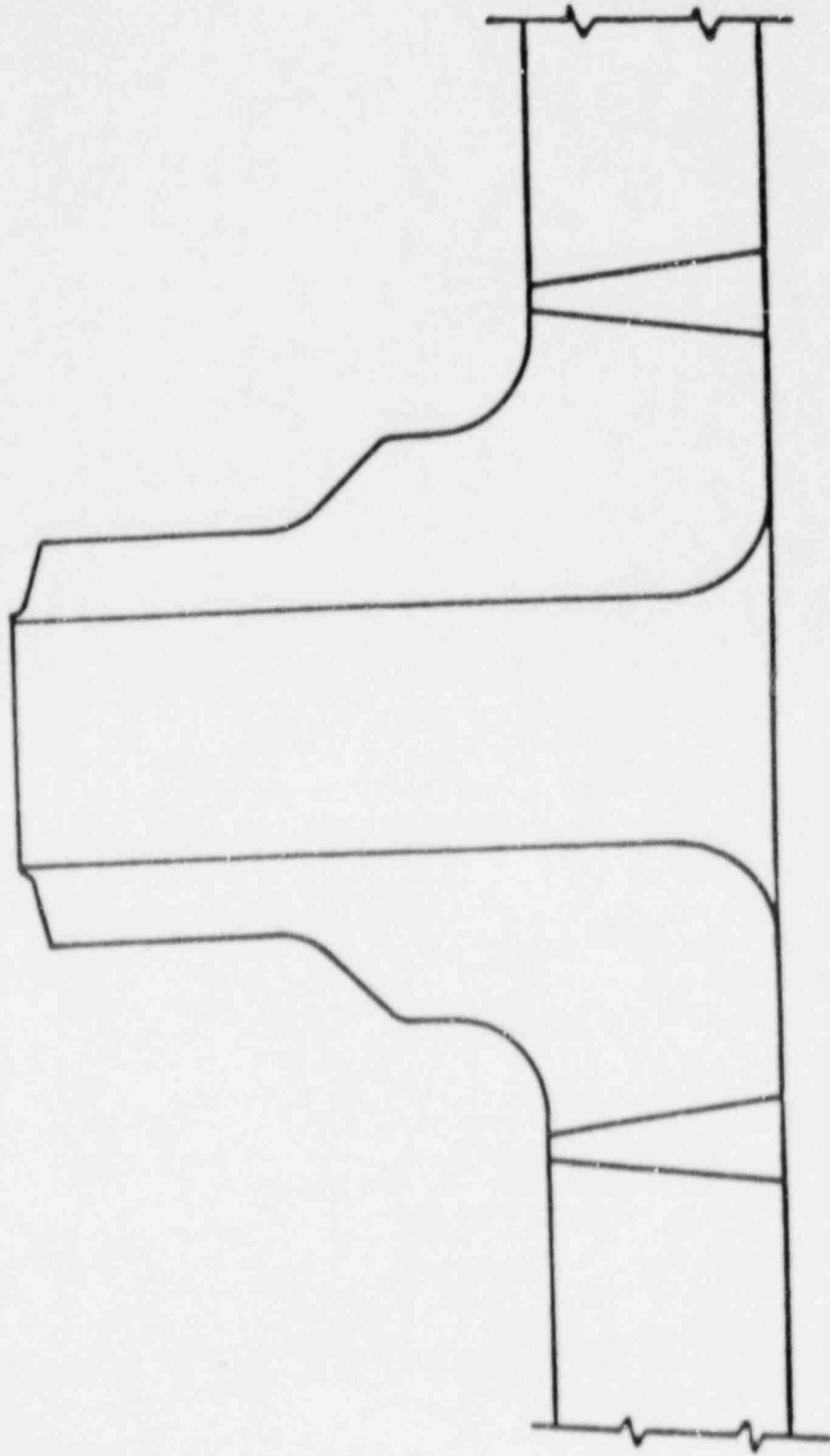


FIGURE 6

TYPE 30.002 OR SIM.
 CLEAR AREA A, B, C, D = 64.04 sq ft
 TOTALLY OBTAINED A, E, G = 9.02 sq ft
 60° ONLY E, F, G = 4.41 sq ft
 45° AND 60° B, C, D, F, E = 11.41 sq ft

TOTALLY OBTAINED VOLUME = 13.918
 OF THE 100 7500-76 REQUIREMENT.

ELABORATION PERFORMED FROM ONE SIDE
 OF WELD ONLY IN ACCORDANCE WITH
 SECTION 9, ARTICLE 6, PARAGRAPH T-401.A.4.

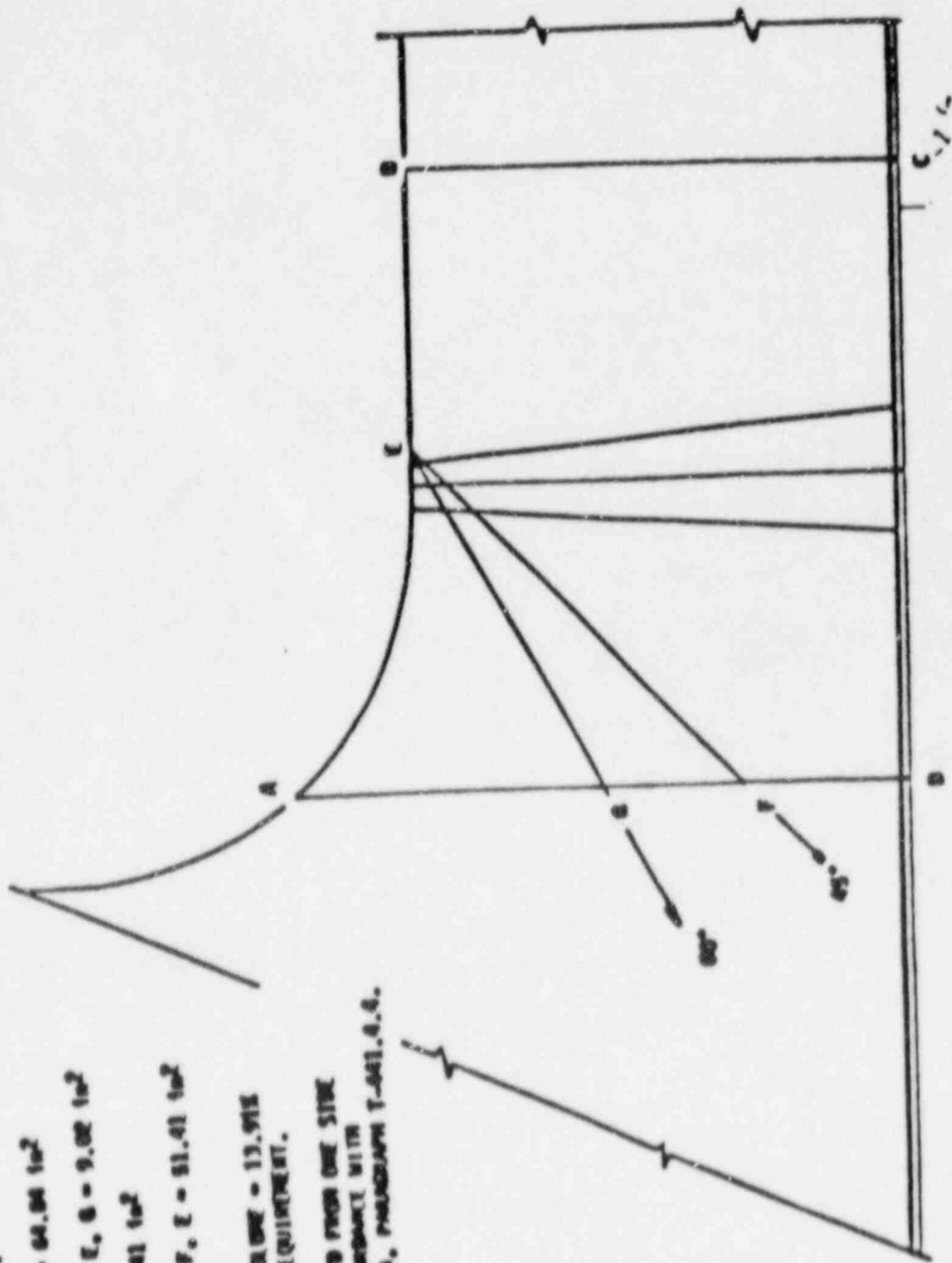


FIGURE 7

TYPE "P" 27.261 CB BAR.

ELON AREA A, B, C, D = 60 in²

TOTALLY UNSTRAINED A, E, H, G = 13.89 in²

60° OR 60° ONLY E, H, E' and H, F, G = 4.26 in²

65° AND 60° B, C, D, F, H, E' = 49.82 in²

TOTALLY UNSTRAINED VOLUME = 79.6495
OF THE TWO 25-00-76 REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION 7, ARTICLE 4, PARAGRAPH T-441.8.A.

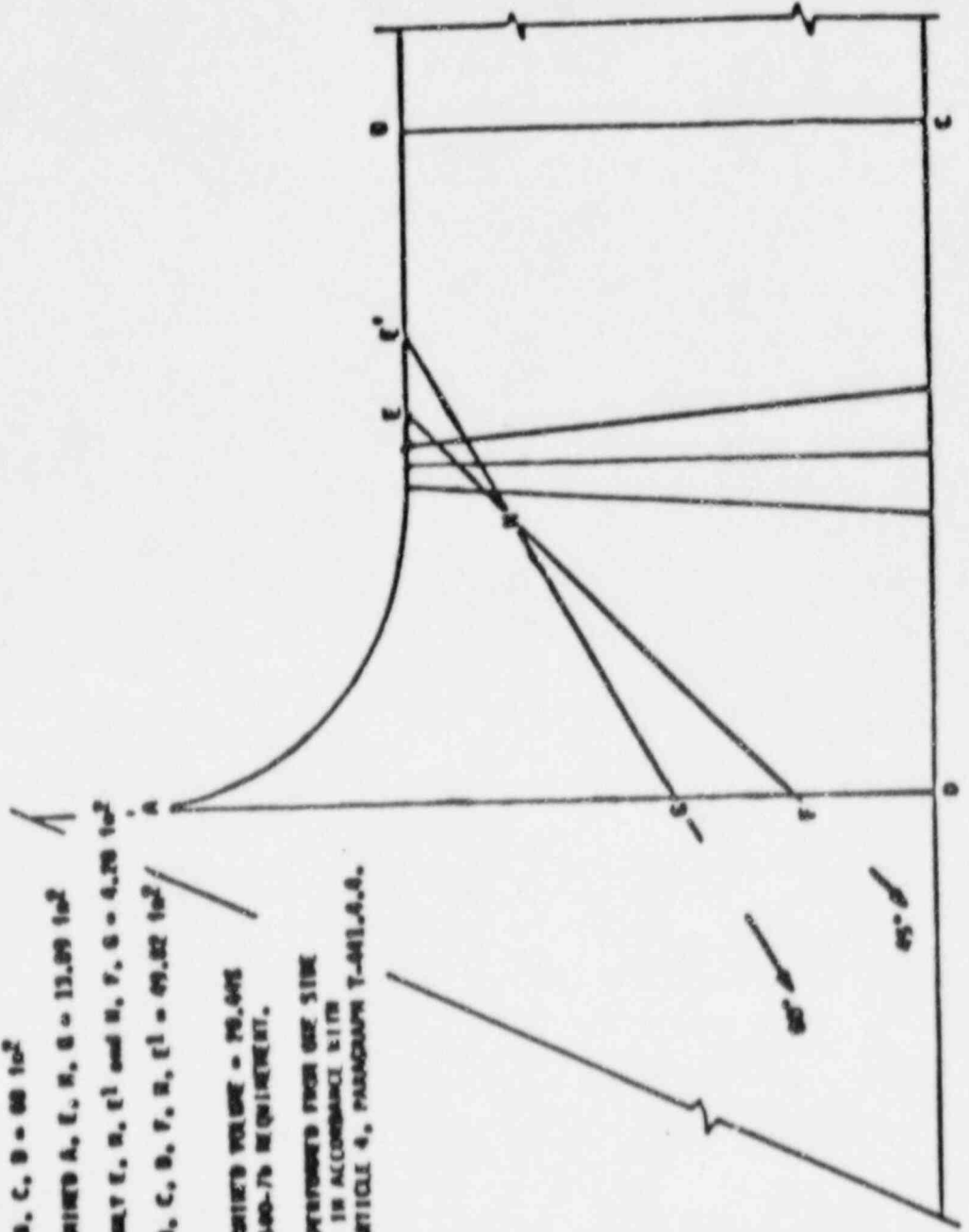


FIGURE 8

TYPE "C" 14.750 00 MOR.

EXAM AREA A, B, C, D = 57.42 in^2

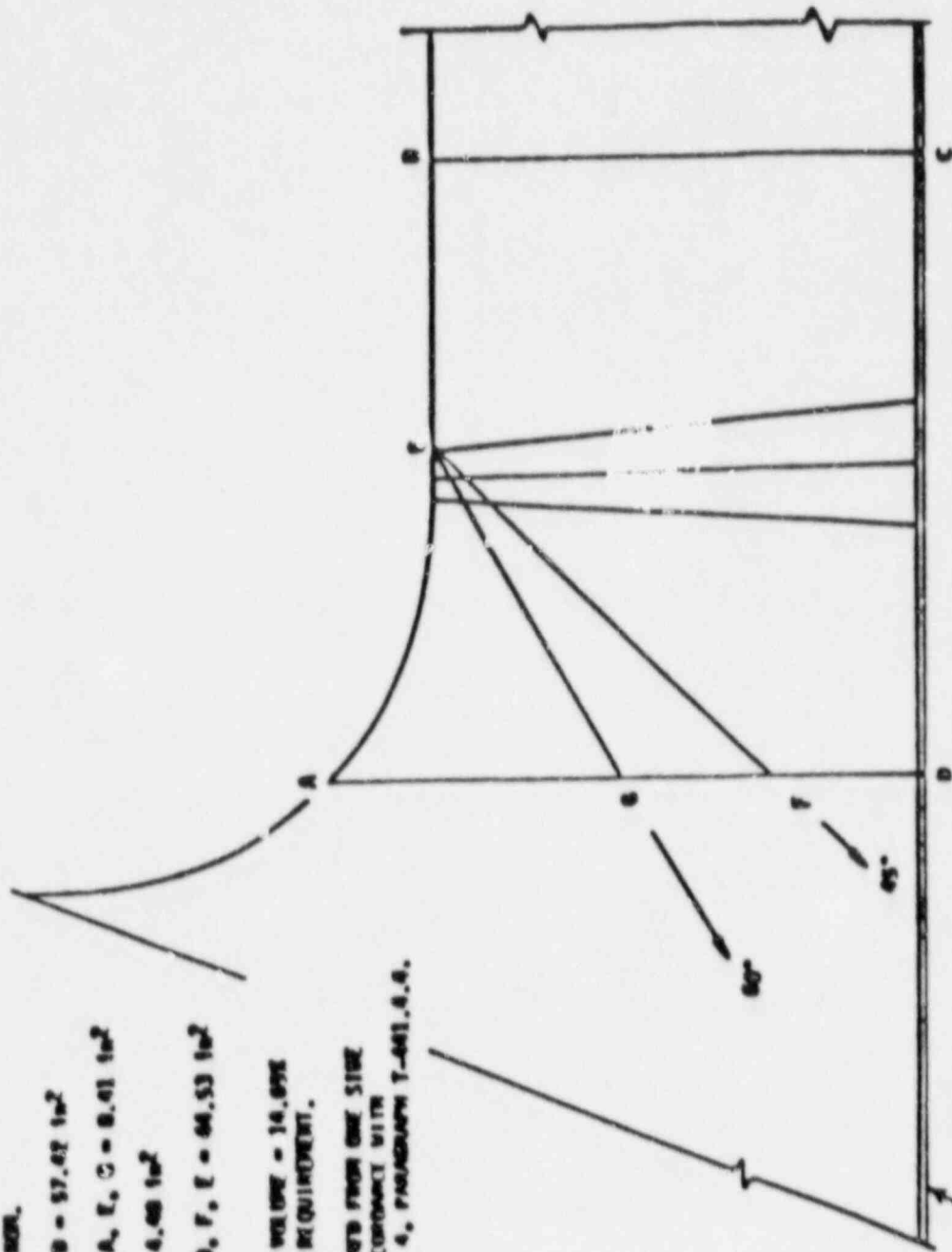
TOTALLY UNCLIPPED A, E, G = 8.41 in^2

60° ONLY E, F, G = 4.48 in^2

65° AND 60° B, C, D, F, E = 66.53 in^2

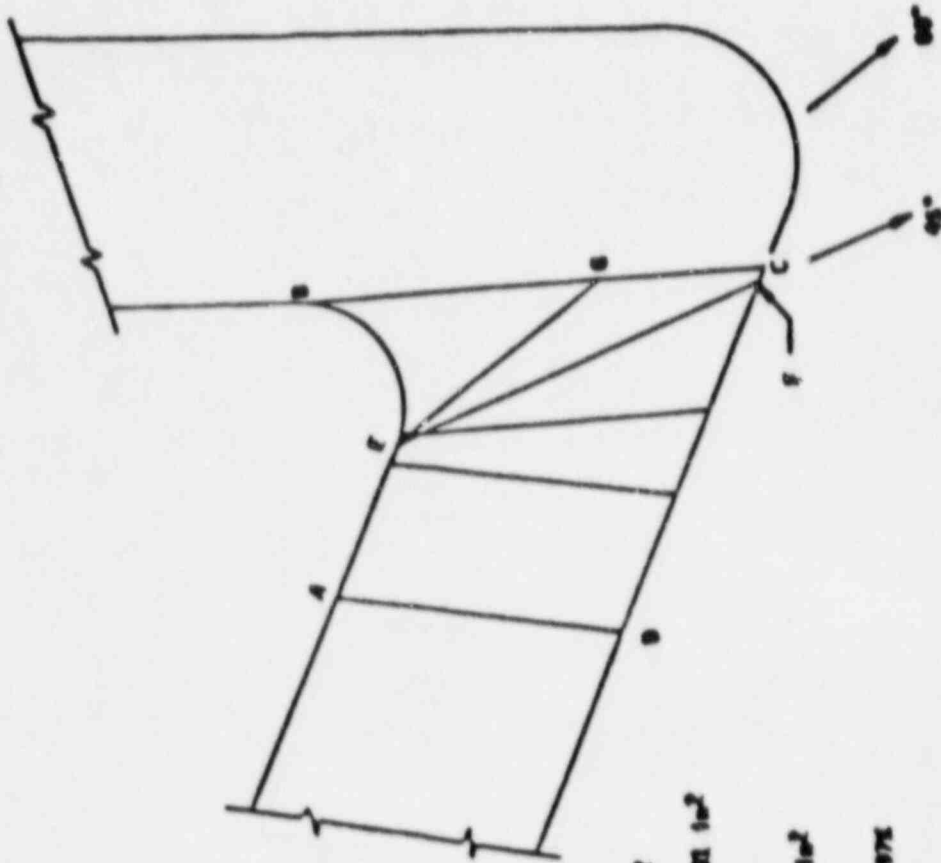
TOTALLY UNCLIPPED VOLUME = 14.8956
BY THE 1100 2500-76 REQUIREMENT.

EVALUATION PERFORMED FROM ONE SIDE
OF M10 ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-481.4.A.



NOTE: FEEDWATER NOZZLES ARE
NOT CLADED.

FIGURE 9



TYPE "P" 9.75M³ OR MORE.

CLEAR AREA A, B, C, D = 15.83 1m²

TOTALLY UNDECKED B, E, G = 2.81 1m²

60° ONLY E, F, G = 1.53 1m²

45° AND 60° A, B, F, E = 11.49 1m²

TOTALLY UNDECKED VOLUME = 17.97%
OF THE 1M3 2500-76 REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF HULL ONLY IN ACCORDANCE WITH
SECTION 9, ARTICLE 4, PARAGRAPHS 1-461.4.6.

TYPE "C" 6.75" x 6.75" x 1/2" WELDED

CROSS AREA A, B, C, D = 50.32 in^2

TOTALLY WELDED AREA A, E, G = 8.74 in^2

60° ONLY E, F, G = 4.46 in^2

45° AND 60° B, C, D, F, E = 49.62 in^2

TOTALLY WELDED VOLUME = 14.138
BY THE 1/2" 7000-PSI REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-401.4.6.

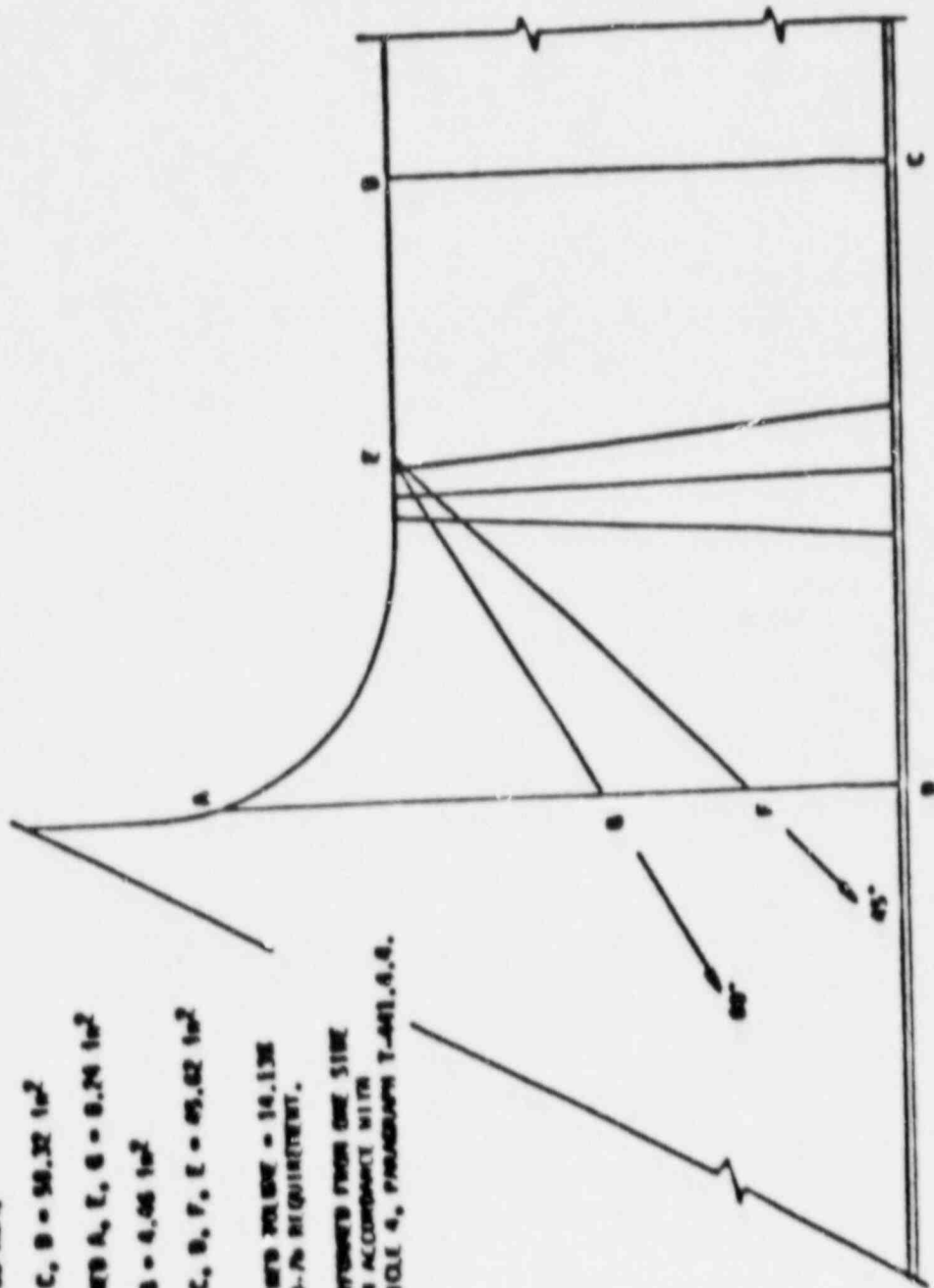


FIGURE 11

TYPE "B" 6.75" OD BBL.

FLARE AREA A, B, C, D = 15.83 in²

TOTALLY UNWEIGHTED B, C, D = 2.61 in²

OD² ONLY E, F, G = 1.09 in²

OD² AND OD² A, B, F, E = 12.13 in²

TOTALLY UNWEIGHTED VOLUME = 16.496
OF THE 1/8" 2-500-76 REQUIREMENT.

ELABORATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-401.6.8.

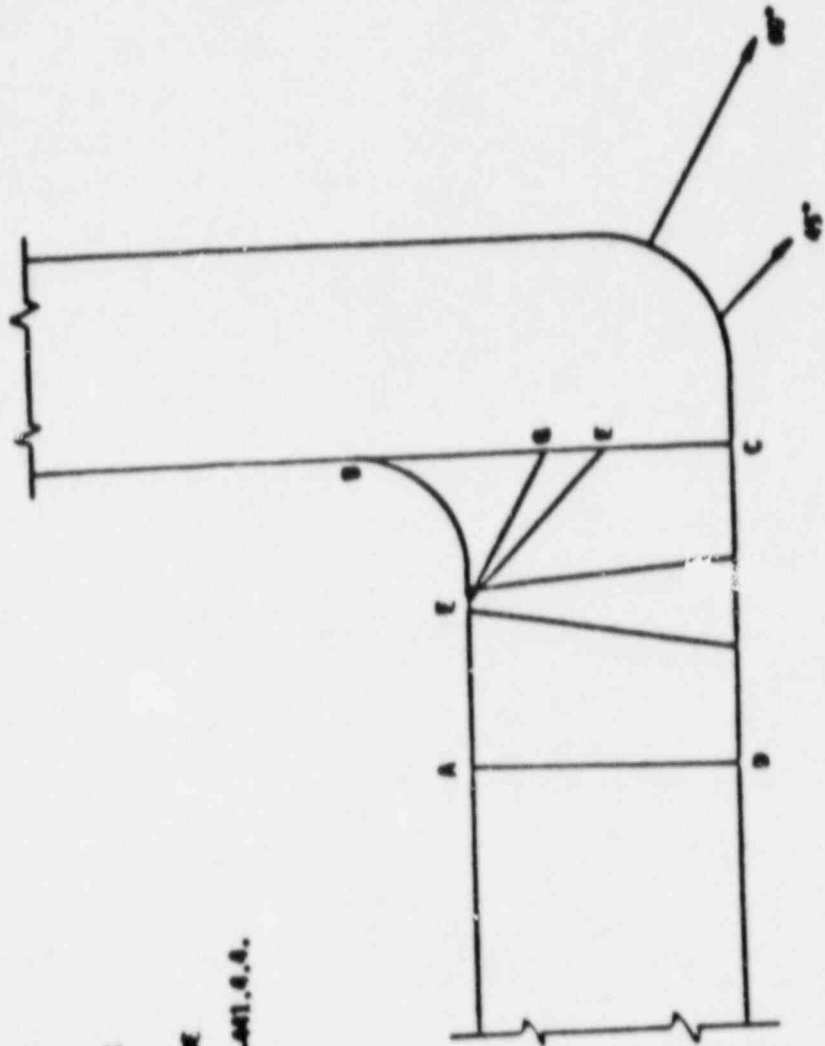


FIGURE 12

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SUMMARY REPORT #3

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2 RPV INSERVICE EXAMINATION
SECOND REFUELING AND INSPECTION OUTAGE
REPORT OF EXAMINATION RESULTS

SUMMARY REPORT #4

Summary Report Comparison of the Operational Characteristics Between the
Number 4: Remote Automatic and the Manual Examination Systems Used
During the Susquehanna Unit 2 Inservice Examination.

The data gathered during the Susquehanna Unit 2 Second Refueling and Inspection Outage provides the assessment of RPV integrity required by both ASME Section XI and USNRC Regulatory Guide 1.150. Since this examination was a composite that used two differing examination systems, correlation between these systems must be established. The purpose of this report is to establish the limits of this correlation.

There are several factors that, taken alone, or in combination with others, affect the comparison of data gathered using differing examination systems. The impact of each of these items affects the examination systems in different ways, rendering exact correlation of data between systems an impossibility. What can be done, however, is to establish upper and lower bound limits to create a correlation factor to be applied as needed. The most likely use of this factor would be during manual checks on indications that were originally detected using the Remote Automatic System. Such exams may be used by PF&L to check indications, between scheduled inservice examinations, for monitoring purposes.

The factors that affect ultrasonic data can be classified into three broad categories. The categories are:

1. The system operational characteristics and the differences therein.
2. The tolerances in operating characteristics applied by the equipment manufacturers.
3. Transducer characteristics.

The following pages contain a discussion of these items, a comparison of these items between systems, and a discussion of each item's effect on the correlation factor.

SYSTEM OPERATING CHARACTERISTICS

The examination systems used for Susquehanna Unit 2 vary in operating characteristics due to their design. The major design variations between systems are the receiver bandwidth and the RF/Video circuitry. The differences are:

Remote Automatic System

Receiver Bandwidth is considered to be narrow. The receiver is turned to operate at its optimum for a single selected frequency. This frequency is 2.25 MHz.

RF/Video Circuitry provides narrow band input to the receiver by conditioning the broader band return signal from the transducer.

Manual Examination System

Receiver Bandwidth is considered to be broad. The receiver is designed to operate adequately over a range of frequencies from 1.0 - 10.0 MHz. Each receiver, however, has an optimum operating frequency within this band. The optimum varies widely even between instruments of the same model.

RF/Video Circuitry for manual systems is designed to provide adequate performance with most transducers that could be used with the instrument. The receiver contains bandpass filters that condition the return signal to the bandwidth that was selected, without regard to the bandwidth of the return signal from the transducer.

As shown above, the systems used differed in operating characteristics due to system design. Presently, neither the ASME nor the NRC consider these differences. This results in a lack of research data to quantify the effect. Research performed at Pacific Northwest Laboratory (NUPEG/CR2264) indicated that an instrument tuned to operate within a narrow band of parameters offers more consistent results than one designed to operate over a broader band.

Receiver bandwidth and RF/video circuitry are known to affect the results of ultrasonic examination. Presently, limited research data indicates that the effect could be as much as ± 3 dB's. Until sufficient research is performed to quantify the effects of these items, they will continue to affect correlation of ultrasonic data, gathered by systems with differing operating characteristics. For the purpose of this report, the 6 dB spread referenced above will be considered to have a 3 dB effect on data correlation.

MANUFACTURING TOLERANCES FOR INSTRUMENTS

The ultrasonic test instruments used in examination systems are built to operate within a tolerance band specified by the manufacturer. The bands vary somewhat between manufacturers but are applied consistently to instruments of a given model. For example, all Krautkrämer USL-48 instruments operate within a set of manufacturer's specifications, but these specs may or may not be applicable to USK-7 instruments. Acceptable performance specs are determined by the manufacturer, consistent with the end use intended for the instrument.

The Remote Automatic System used at Susquehanna Unit 2 contains a single multiplexed ultrasonic instrument. Therefore, the effect of these tolerances on Susquehanna's automatic data is negligible. All data gathered with the automated system was processed through the same pulser, receiver, amplifiers and filters. Any effect one of these sub-systems could have on the data should affect all data equally each time a weld is examined. Barring major changes in the system's ultrasonic instrumentation, any differences between successive inspections on a particular weld should be minimal.

The Manual Examination Systems used at Susquehanna Unit 2 utilized instruments of different models produced by the same manufacturer. The effect of manufacturing tolerances on the manual data is present and must be accounted for.

It has been learned through experience that different ultrasonic instruments, each operating within the manufacturers specifications, may offer widely varying responses from the same reflector. One case at an operating plant involved a reflector that was present, disappeared the following year, and reappeared the third year. The cause was found to be the ultrasonic instruments used, even though all were operating within the manufacturer's design specifications.

Research performed by General Electric concerning the differences between manual instruments shows that a spread of ± 5.5 dB's can exist between instruments from the same manufacturer. It is reasonable to expect the spread between instruments obtained from different manufacturers to be even larger. The GE data was generated using the same transducer and reflectors with only UT instruments as a variable. The data does not cover instruments from all manufacturers, but it is a reasonable assumption that the data provides sufficient comparisons to allow a rough correlation. For purposes of this report, the 11 dB spread referenced above will be considered to have a 5.5 dB effect on data correlation.

TRANSDUCER CHARACTERISTICS

The transducers used in an examination system have been shown to be the most variable component in the system. The variations within a single transducer over a period of time are caused by mechanical damage, aging of the active element, and wear. Variations between transducers, especially those from different manufacturers, result from design, assembly techniques, materials, damping, and electromechanical efficiency. The range of performance between transducers is wide. A 6 dB difference between two transducers of the same nominal rating, when examining the same reflector, are not unusual. Another factor that affects ultrasonic data is the shape of the transducer itself. Of the items above, only electromechanical efficiency and transducer shape have been thoroughly documented through research efforts. Their effect on the correlation of Susquehanna Unit 2 data is as follows:

Remote Automatic System

Electromechanical Efficiency for the transducers used in the Remote Automatic System is determined at the time of manufacture by a measurement of relative

sensitivity. Relative sensitivity is calculated by measuring the attenuation required to reduce the amplitude of a return signal to a predetermined value. This measurement is made during the transducer certification process. Variations in test results attributable to transducer efficiency happen due to a wide mismatch in efficiency between transducers. The transducers used in the automatic systems have relative sensitivity ratings in the range of 30-40 dB's and are considered to be closely matched.

Transducer Shape for all transducers used in the Remote Automatic System was round with a 1" diameter element. The round element has been shown to offer a uniform sound pattern with a larger portion of the sound field in the -1 to -6 dB range than either square or rectangular elements. This means that a small reflector is more likely to be interrogated by the strongest portion of the beam when using a round transducer.

Manual Examination Systems

Electromechanical Efficiency for the transducers used in the Manual Examination Systems is determined in the same manner as used for the automatic system. The transducers used in the manual systems have a range of spread more than twice that found in the automatic transducers. The range of transducer efficiency for the manual transducers could affect data correlation.

Transducer Shape for all transducers used in the Manual Examination Systems was round with a 1" diameter element. The 1" diameter transducers compare favorably with those used in the automatic system.

NOTE: 1/2" x 1" rectangular search units are also available for Angle Beam Examinations. The 1/2" x 1" rectangular elements have been shown in laboratory testing to have a nonuniform sound pattern with a very narrow portion of

the pattern falling in the -1 to -6 dB range. This means that a small reflector is less likely to be interrogated by the strongest portion of the sound beam when using a rectangular transducer. Caution should be exercised if rectangular transducers are to be substituted for round ones.

Transducer Frequency for angle beam manual examinations was 1.0 MHz while 2.25 MHz was used for automated exams. As predicted theoretically, there was a detectable difference in sensitivity between the two frequencies. This was shown by comparisons performed on Limerick calibration standards 2, 3, and 4. There was 6-12 dB's more gain in the instruments when calibrating with the 1.0 MHz search units. Comparisons were performed on indications detected by the automated system with 2.25 MHz using the 1.0 MHz manual transducers. The results indicated about a ± 3 dB difference in the detected amplitude of a given indication. Sometimes the 1.0 MHz yielded the higher amplitude, sometimes the 2.25 MHz was higher. The difference will, therefore, be assigned a value of ± 6 dB's.

The data presented above shows that all transducers used at Susquehanna meet the requirements of the ASME. The transducers used with both systems are likely to detect small reflectors at recordable amplitudes. This also indicates that direct comparison of data from large reflectors should yield meaningful results. This would not be true if search units of other shapes had been used with the manual examination system.

DISCUSSION

As presented in the preceding paragraphs, equipment differences ranging from ± 3 dB's for operating characteristics, to ± 5.5 dB's for instrument manufacturing tolerances, to ± 6 dB's for transducer characteristics affect correlation of data between the GE Remote Automatic Examination System and Manual Examination Systems. The effect of these differences is additive, yielding a maximum observed spread of 29 dB's between systems. It should be noted, however, that the maximum spread and the actual observed performance seldom agree. The performance differences for the equipment used at Susquehanna were:

	<u>Theoretical</u>	<u>Observed</u>
Differences in Receiver and RF/Video Characteristics	± 3 dB's	Negligible

	<u>Theoretical</u>	<u>Observed</u>
Differences in Instrument Manufacturing Tolerances	Known Only to Manufacturers	± 5.5 dB's
Differences in Transducer Characteristics	± 6 dB's	± 3 dB's
Differences Due to Transducer Frequency	Cannot Be Calculated Must be Established Empirically	± 6 dB's

The estimates above yield a maximum expected spread of ± 14.5 dB's for the system differences. This compares favorably with measured differences between the GE remote system and manual systems observed during examinations at other plants. The measured differences at these plants range from 4 dB's through 14.5 dB's for an average of ± 9.25 dB's.

CONCLUSIONS

If manual examination of indications detected by the Remote Automatic System should ever be required at Susquehanna, several precautions should be exercised. They are:

1. The manual instrument selected should operate with similar characteristics. An instrument from the same manufacturer should be the minimum requirement. If it is possible, an instrument of the same model as the manual instruments used during the preservice exams should be obtained. The GE systems used at Susquehanna are based on Krautkramer-Branson instruments.
2. The transducer selected for the examination should match the operating characteristics of those used with the automatic equipment as closely as possible. The transducer should be round 1" diameter with a relative sensitivity (electromechanical efficiency) of about 34 dB's. The transducers used with the automatic equipment were Aerotech, Gamma Series, 1" diameter, 2.25 MHz. The shoe(s) used with the transducer should be as close, dimensionally, as possible to the remote system shoes.
3. The manual examination personnel and Level III performing the exam should be aware that direct correlation between indications detected with the remote system, may not be possible. A ± 14.5 dB sensitivity difference could exist, and must be accounted for.
4. Due to system design, components, and computer recording of examination data the Remote Automatic System is much more likely to record return signals from very small reflectors. This is especially true at 20% DAC recording levels. In the case of small, unfavorably oriented reflectors, comparison by manual techniques may be impossible due to the manual system's inability to detect the reflector at all.

5. As the state of the art in both automatic and manual equipment improves, the improvements should be evaluated for their effect on data correlation. Changes in correlation methods should then be applied during the comparisons, if equipment changes warrant them.
6. It should be noted that direct correlation between data gathered via different systems is considered to be difficult at best; at worst it is impossible. If data correlation is required during Susquehanna operations, it is assumed that the indication will have a size that requires dimensioning. Larger indications will tend to reduce the effects of equipment differences. If manual exams are intended to be used as a check of automated data validity, the largest indication should be compared within the bounds of the data presented herein.

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