PP&L Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Harold W. Keiser
Vice President-Nuclear Operations
215/770-7502

JAN 27 1987

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Project Director
BWR Project Directorate No. #3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT 2 FIRST REFUEL OUTAGE ISI
SUMMARY REPORT
CCN 741317 FILE R15-4, R41-2
PLA-2789

Dear Ms. Adensam:

Attached for your use is a copy of the Susquehanna Steam Electric Station Inservice Inspection Outage Summary Report for the Unit 2 First Refuel Outage. A copy of this report has also been sent to the Commonwealth of Pennsylvania.

If you have any questions, please contact us.

Very truly yours,

H. W. Keiser
Vice President - Nuclear Operations

Attachment

cc: Document Control Desk w/original
Mr. L. R. Plisco - NRC Resident
Mr. M. C. Thadani - NRC Project Manager
NRC Region 1

50-388

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SUSQUEHANNA STEAM ELECTRIC STATION

INSERVICE INSPECTION

OUTAGE SUMMARY REPORT

for the

UNIT 2

FIRST REFUELING OUTAGE

JANUARY, 1987

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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Pennsylvania Power and Light Company
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 2-12-85 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
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	2-49 A,B,D E,F,G	N/A	N/A
RCIC	Bechtel	2-50 B,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 8½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates 2-12-85 to 10-29-86 9. Inspection Interval from 2-12-85 to 2-12-95

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 1/19/ 19 87 Signed ROBERT G. BYRAM By
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 Feb. 12, 1985 to Oct. 29, 1986, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

FACTORY MUTUAL SYSTEM

Date JAN 19 19 87

William R. Rogers III Commissions NB7930 PA2204 NIBS IS
Inspector's Signature National Board, State, Province and No.

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

A. INTRODUCTION

1. Susquehanna Steam Electric Station, Unit 2, began commercial operation on February 12, 1985. The unit was shutdown for its first refueling outage on August 9, 1986, 20 months into the 36 month First Inspection Period of the First Ten Year Interval. The refueling outage and the Inservice Inspections were completed on October 29, 1986. This report covers the examinations, tests, repairs and replacements since the unit began commercial operation.

2. The applicable year and addenda of the ASME Boiler and Pressure Vessel Code, Division 1, Section XI for SSES Unit 2 is the 1980 Edition through and including the Winter 1981 Addenda. PP&L has selected the 10 year inspection Interval B as described in IWA-2420.

3. This report is divided into the various sections listed below:

   - Piping and component Examinations
   - Reactor Pressure Vessel Examinations
   - System Pressure Tests
   - Snubber Functional Tests
   - ASME Repairs and Replacements

   Each of these sections is handled as a separate entity within this report and 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.

4. Specific code compliance items and percentages attained are listed in the Code Compliance summary, Appendix B.

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

   William R. Rogers III and Delton E. Tillery
   Arkwright Boston Manufacturers 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 2000 of ASME Section XI and PP&L document ISI-T-207.0. The NDE contractor utilized was the Southwest Research Institute, San Antonio, Texas. A detailed listing of the examinations performed 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 and 2 components. System pressure tests are covered in Section D of this report. This listing includes the total of PP&L's selected components for the First Inspection Interval and compares it with the actual first period completion. Percentages are shown for completed work in the first period and also for the first Interval.

2. Abstract of conditions noted and corrective actions

   a. A surface indication was discovered near RHR B loop weld GBB 204-4-2C. This indication exceeded the Class 1 acceptance criteria listed in table IWB 3514.2. NCR 86-0424 was generated though the component was Class 2 with no acceptance criteria.

      The indication was determined to be a manufacturing defect by metallographic analysis and removed by mechanical means as a non-welded repair.

      Since the indications were not service induced, the requirements of IWC-2340 do not apply and no additional examinations were performed.

   b. Two loose Hilti nuts were discovered on Rigid support DBB 229-1-H1 during visual inspection. NCR 86-0466 was written in accordance with the requirements of IWF 3410 a.2. The rework of the hanger consisted of retorquing the loose nuts and inspecting the adjacent hanger for damage in accordance with ISI-T-117.0. Six additional welds along the header supported by the hanger were examined for damage.

      No damage was identified on the additional examination of hanger DBB 229-1-H2. Surface imperfections were identified on four of the additional welds and were determined not service related by metallographic analysis. The indications were removed as non-welded repairs. Thermal expansion of the system was verified by PP&L and found acceptable.

c. Incomplete examinations

There were a total of four examinations where access to the volume requiring nondestructive testing was limited due to configuration. These areas will be submitted along with the SSES Unit 2 First Refuel Outage limited exams requesting relief. The components affected are as follows:

System	Component Identification	% Coverage Attained
RWCU	DBA 201-1 FW23	35%
HPCI	HBB 209-1 H54	85%
CS	DBB 213-1 FW3	95%
RWCU	DCA 202-1 FW1	50%

C. REACTOR PRESSURE VESSEL EXAMINATIONS

1. Abstract of Examinations

   RPV Internal examinations were performed by a joint team of contractor personnel from CTS and Southwest Research Institute. The CTS personnel handled the video equipment, while the SWRI personnel interpreted the examination data.

2. Code Compliance summary

   Appendix A.2 provides a detailed listing of the components within the vessel examined. These items are listed under code 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. Numerous cracks were found in the Steam Dryer due to the Intergranular Stress Corrosion Cracking mechanism. This condition is documented on PP&L NCR 86-0467.

   b. Gaps of .005" to .015" were identified between the jet pump restrainer set screws and the jet pumps at four locations. The condition was documented on PP&L NCR 86-0521.

      An engineering analysis was performed and it was determined that safe operation may be obtained with gaps up to .030". The condition was accepted as is by PP&L Nuclear Plant Engineering.

   c. A partial examination was performed on the vessel dryer support brackets with 75% coverage obtained. The remaining 25% will be examined during the Unit 2 Second Refuel Outage. Where coverage was obtained, the results were satisfactory with no service induced indications identified.

D. SYSTEM PRESSURE TESTS

1. Abstract of Tests Conducted

Ten system pressure tests were performed during the outage. The systems were pressurized to operating pressure and certified visual examiners performed the VT-2 examinations. The test boundaries and pressures are detailed in the specific system surveillance procedure (SE) for each test.

The systems tested are as follows:

System	Procedure
RHRSW	SE-216-301
FW	SE-145-301
RHR	SE-249-301
RCIC	SE-250-301
CS	SE-251-301
HPCI	SE-252-301
ESW	SE-254-301
CRD	SE-255-301
SBLC	SE-253-301
Class 1 Boundary	SE-200-002

2. Code Compliance Summary

a. Code Category B-P requires a system pressure test per IWB-5221 each refueling outage. This item was satisfied under SE-200-002.

b. Code Category B-P requires a system hydrostatic test each inspection interval. No work was performed in this area.

c. IWC and IWD-5000 requires a system pressure test each inspection period for Class 2 and 3 systems. This requirement was satisfied for the systems listed under section D.1. No system hydrostatic tests were performed for the interval on Class 2 or 3 systems.

3. Abstract of conditions noted and corrective measures taken.

a. No through wall leakage of the pressure retaining boundary was identified. Minor mechanical leaks in packing, seals, etc. were identified during the inspections. These leaks were documented on Work Authorizations and corrected by plant maintenance personnel.

E. MECHANICAL SNUBBER FUNCTIONAL TESTS

1. A total of 318 mechanical snubbers were functionally tested. All snubbers were manufactured by Pacific Scientific. The contractor utilized was Wyle Testing. The snubbers were selected and tested in accordance with Susquehanna Steam Electric Station Technical Specification 3/4.7.4, Snubbers. PP&L previously submitted relief request #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.

   VT-3 and VT-4 examinations were conducted in accordance with ASME XI by Southwest Research Institute.

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 detailed listing of component VT-3 and VT-4 examinations can be found in Appendix A.

   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 the Unit 2 Technical Specifications resulted in snubbers being divided into four types for testing. These consisted of:

Group 1	Size 1/4 and 1/2
Group 2	Size 1,3 and 10
Group 3	Size 35 and 100
Group 4	Size PSB .05 and .12

   Sampling plans were applied independently. Groups 1 and 4 used Option 'a' of 3/4.7.4. Groups 2 and 3 used Option 'b' of 3/4.7.4.

   b. The following results were achieved in compliance with the Technical Specification for testing and sampling:

GROUP	GROUP TOTAL	NO. TESTED	NO. FAILED
1	170	164*	9
2	443	37	0
3	534	110	4
4	9	1	0

   * The remaining six snubbers in Group 1 were tested as special case snubbers, of which 2 failed.

c. The snubbers that failed testing were replaced with successfully tested spare snubbers.

An engineering evaluation was performed for all general population and special case snubbers that failed testing. The evaluation concluded that all supported components were still capable of meeting their intended design function and service requirements.

4. Detailed Listing: _See Appendix C

a. Procedures utilized: AD-QA-195 Rev 01, MT-099-006 Rev 0

b. Snubbers tested, failures and replacements are listed in Appendix C. NIS-2 forms for the replacement snubbers are listed in Appendix D.1.

F. ASME REPAIRS AND REPLACEMENTS

1. Introduction

This section of the Summary Report contains work performed on ASME Section XI items identified by Work Authorizations (WAs) and Design Change Packages (DCPs). The scope of work addressed encompasses the period from commercial operation to the completion of the Unit 2 First 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. Mechanical Maintenance is responsible for conducting repairs and replacements under the WA process and documented on NIS-2/R-1 forms. The detailed listing of work performed is summarized below. The NIS-2/R-1 Forms are in Appendix D.1.

Mechanical Maintenance Detailed Listing

WA NUMBER	SYSTEM/CLASS	DESCRIPTION
V64446	216A III	Replace flange on pipe spool HRC-212-1-5
V64447	216A III	Replaced flange on pipe spool HRC-212-2-5
V64610	216A III	Replace valve PSV-21213B
U33050	218A VIII	Replace heater well in air dryer 2F-116A
V53408	218A VIII	Replace heater element and tube in air dryer vessel; 2F-116B
S24926	225A II	Refit and welded inlet and outlet flange valve PSV-22643
S24926	225A II	Refit and welded inlet and outlet flange valve PSV-22648
U33753	225A III	Seal weld body to bonnet on valve SV-22643
U33754	225A III	Seal weld body to bonnet on valve 2-26-015
V53010	225A III	Replaced bellows in valve PCV-22643
V63225	225A III	Body to bonnet weld ground out to permit disassembly and reweld valve 226-063
V63226	225A III	Body to bonnet weld ground out to permit disassembly and reweld
V63229	225A III	Body to bonnet weld ground out to permit disassembly and reweld
V63230	225A III	Replaced disc in valve 226-066

WA NUMBER	SYSTEM/CLASS	DESCRIPTION
V63558	225A III	Replaced valve SV-22643
V63559	225A III	Replaced pilot disc in valve SV-22648
V64636	225A III	Replaced disc and spring in valve PSV-22643
V64675	225A III	Replaced valves 2-26-015 and SV-22643
V64696	225A III	Replaced seat sleeve in Vlve PSV-22643
V64697	225A III	Remove tackwelds, rework internals
V63025	234G III	Replace valve stems and disc's on valves RV1 & RV2 FE-21182B and RV1 & RV2 FP-21182D
V64146	234K II	Replaced disc in valve HV-28791A2
V64552	245A II	Replaced Brg. cover nuts on valve HV-2F032B
V63913	249A I	RWS-200-H33 Snubber Replacement
V63878	249B I	DCA-210-H14 Snubber Replacement
V63917	249F I	SP-DCA-210-H5006 Snubber Replacement
U43016	249G I	Replace valve HV-251F015B seat ring & resurfaced disc with weld build-up
V43350	249G I	Rework valve HV251F015B and build-up valve disc guide surface
V44657	249G I	Installed wear strip and guide rib on valve HV-251F015B
V43932	249G I	Installed wear strip (tack welded) on valve HV-251F015A
V43947	249G I	Prepared lower guide and installed new disc (heat #F6684) in valve HV-251F015B
V44548	249G I	Increased inner diameter of body in valve HV-251F050A
V64549	249G I	Replaced disc in valve HV-251F015A
V64836	249G I	Replaced plug and stem in valve HV-2F122B
U33639	249A II	Replaced disc and stem
U33663	249A II	Replaced disc in valve HV-251F040
U34092	249A II	Replaced disc in valve HV-251F017B
V44644	249A II	Added permanent lifting lugs to valve 251F031B
V63110	249A II	Tack weld disc to disc nut on valve 251F024A
V63111	249A II	Replaced disc in valve HV-E11-2F024B
V63112	249A II	Replaced main disc in valve 5V-22360A
V63113	249A II	Replaced main disc in valve 5V-22360B
V63160	249A II	Weld repaired valves 251F046A and 251F046C
V63161	249A II	Weld repaired valves 251F046B and 251F046D
V64274	249A II	Removed ISI indications on weld GBB-204-4-2C
V64832	249A II	Remove ISI indications
V64833	249A II	Replace snubber on hanger GBB-215-H15
V[illegible]-140	249B II	Seal weld body to bonnet on valve SV-251F080A

WA NUMBER	SYSTEM/CLASS	DESCRIPTION
V44261	249B II	Replaced valve 251F106A
V44262	249B II	Replaced disc in valve SV-2F105A
V44263	249B II	Replaced disc in valve SV-2F105B
V44264	249B II	Replaced valve 251F106B
V63126	249B II	Replaced plugs in valves PV-2F052A and PV-2F051A
V63162	249B II	Weld repaired valve 2F054A
V63163	249B II	Weld repaired valve 251F054B
V63371	249B II	Remove rear bracket of hanger; replaced 7 studs, 14 nuts on vessel on RHR Heat Exchanger
V63231	249B II	Replaced plugs in valves PV-E11-2F051B and PV-E11-2F052B
V64152	249B II	Plug leaking tubes
V63370/V64153	249B II	Replaced 7 studs and 14 nuts on RHR Heat Exchanger, plugged leaking tube
V63976	249C II	DBB-215-H9 Snubber Replacement
V63024	249E II	Replaced disc in valves RV1 & RV2 FT-25120B
V64224	249E II	Replaced disc in valve RV2 FT-25120A
V64040	249F II	GBB-209-H67 Snubber Replacement
V63991	249J II	GBB-214-H52 & GBB-214-H53 Snubber Replacement
V63928	250C I	SP-DCA-229-H3006 & SP-DCA-230-H3022 Snubber Replacement
V44248	250A II	Rewelded disc to nut welds on valve HV-249F022
V63994	250B II	DBB-209-H12 Snubber Replacement
U63005	250A II	Replaced spring and washer in valve PSV-2F097
V53933	250B II	Replaced LSH-E51-2N010 level switch and plug
V63158	251A II	Tack weld and fillet weld check valve hinge support bracket, cap screw
V63159	251A II	Weld repaired valves 252F036B and 252F036D
V63902	252B II	SP-DBB-215-H5005 Snubber Replacement
V44237	252B II	Reinstall hanger SP-HBB-234-H14 after lube oil cooler maintenance
V44473	252B II	Installed new disc in valve 255F049
V44609	252B II	Weld repaired valve 255F049
U33593	253A I	Seal weld body to bonnet on valve C41-2F007
V63509	253A II	Replace explosive actuator after firing in valves 248F004A and B
V64004	254A III	HRC-229-H29 Snubber Replacement
V64409	254A III	Replaced valve 2-10-110
V64410	254A III	Replaced valve 2-10-113
V64353	254A III	Replaced valve 2-10-109
V64355	254A III	Replaced valve 2-10-112
V64006	254B III	SP-HRC-239-H5012 Snubber Replacement
V64469	255B II	Removed ISI indications on weld VBB-202-1-FW2

WA NUMBER	SYSTEM/CLASS	DESCRIPTION
V64645	255B II	Replaced disc in valve W-10-35
V64646	255B II	Replaced disc in valve I-06-35
U33930	261B I	Replaced and machined disc (heat #E2432) in valve HV-244F001
V63937	261C I	SP-DCA-233-H3003 Snubber Replacement
V44260	261A III	Welded new flange to existing flow transmitter FT-24589B
U34021	261B III	Replaced gland studs and nuts in pump 2P-221A
V53135	261B III	Repair and rework RWCU pump 2P-221B internals to correct leakage
V63023	261B III	Replace valve stems and discs in valves FT-2N012 RV1,2,3 & 4
V63120/V64689	261B III	Grind out defective diaphram and weld a new diaphram back on heat exchanger
U34059/U34025/ U34094/U34102	262A I	Replaced CRDs 42-55, 34-27, 42-11 02-43, 46-31
V53447	262A I	Replaced disc in valve HV-241F001
V63128	262A I	Replaced disc in valve HV-B21-F002
V63131/V63134	262A I	Replaced CRD's 58-43 & 46-56
V63135/V63139	262A I	Replace CRD's 42-59 & 30-47
V63137/V63144/ V63378/V63141/ V63142/V63133	262A I	Replace CRD's 42-31, 26-19, 22-19, 50-35, 02-27, & 26-43
V63138/V63146	262A I	Replace CRD's 34-35 & 18-27
V63145/V63377/ V63148/V63143/ V63380/V63149/ V63132/V63379/ V63140/V63147	262A I	Replace CRD's 18-39, 06-23, 10-39, 22-55, 02-39, 06-47, 14-23, 06-15, 30-03, & 18-03
V63150/V63136	262A I	Replace CRD's 06-27 & 42-47
V63154/V64481	262A I	Replaced cover studs and nuts on valve HV-241F028D
V63192/V63248	262A I	Removed MSRV's from plant; retested valves offsite per spec M-1085; re-installed MSRV's
V63893	262B I	SP-DCA-201-H5003 Snubber Replacement
V63892	262C I	SP-DCA-237-H5015 Snubber Replacement
V63899/V63889/ V63890/V63891	264A I	RWS-200-H11, RWS-200-H46, SP-DCA-202-H2602, SP-DCA-218-H5014 Snubber Replacements
V43741	264B I	Cut and rewelded bonnet vent line to facilitate valve stem inspection on valve HV-243F031B
V43744	264B I	Cut and reweld bonnet vent line on valve HV-243F031B
V44577	264B I	Reworked hanger SP-DCA-202-H14 to eliminate thermal interference
Y60048	264B I	Weld repaired hanger RWS-200-H27
V63048	264A II	Replaced disc in valve SV-22374 and repaired hanger SP-DCB-225-H5001
U33709	264D II	Seal weld body to bonnet on valve 243F013A

WA NUMBER	SYSTEM/CLASS	DESCRIPTION
U43144	272B III	Replaced two insulation studs on vessel 2S125
U34073	273A II	Seal weld body to bonnet on valve SV-25742B
V44469	273A II	Replaced disc in valve SV-25752A
V44472	273A II	Replaced valves SV-25740A and SV-25742A
V44505	273A II	Replaced valve SV-25782B
V63043	273A II	Replaced valve 25746A
V63044	273A II	Replaced valve 25745A
V63233	273A II	Replaced main disc in valve SV-25746A
V63234	273A II	Replaced main disc in valve SV-25744A
V63235	273A II	Replaced main disc in valve SV-25745A
V63796	273A II	Replaced valves SV-25780A & SV-25782A
V63818	273A II	Replaced main disc in valve SV-25740A
V63819	273A II	Replaced main disc in valve SV-25742A
V63820	273A II	Replaced main disc in valve SV-25780A
V63821	273A II	Replaced main disc in valve SV-25782A
V64508	273A II	Replaced main disc in valve SV-25750A
V63906/V64474	283A II	DBB-201-H4, DBB-204-H7, SP-DBB-208-H13
V64014		Snubber Replacements
V44421	283A II	Replaced LSHH-20112C level switch
V63630	283A II	Replaced disc in valve 3RV-LSH-20112A
Y60049	283A II	Repaired hanger DBB-229-1-H1. Removed ISI indications on welds SP-DBB-229-1-FW6, DBB-201-1-FW14, DBB-202-1-FW14, DBB-204-1-FW2, & DBB-224-1-FW10
V44366	283 III	Removal of hanger clips to facilitate valve rework
V44365	283B III	Removal of hanger clips and blended grind mark on pipe SP-HRC-236-4-2
U34571	283E III	Seal weld body to bonnet on valve 2-41-006F
V61155	283H II	Repaired Hanger HBB-248-H52

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 Group

Design Change Packages for ASME Section XI (Class 1,2, and 3) items, installed from date of commercial operation thru the completion of the First Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM/CLASS	DESCRIPTION
V63371	216A III	Replaced rear bracket on hanger HRC-212-H15
86-8006/86-8007	216A III	Piping and support modification to facilitate RHR Heat Exchanger Inspection
84-3101	234E III	Change water supply to/from 2V-209A to be off ESW "A" and 2V-208A to be off ESW "B"
84-3101	234F III	Change water supply to/from 2V-209A to be off ESW "A" and 2V-208A to be off ESW "B"
83-59	234U III	Installed butterfly valve HV-21144A
83-592 D&E	234U III	Install two each 2" globe valves and two each 4" motor operated valves
83-592 G&H	234U III	Installed two - 2" vacuum breakers in Reactor Building
83-449D	235B III	Reroute section of the 14" pipe Fuel Pool Cooling to RHR Pump Suction Line
85-3143	245A I	Add test and vent connections to facilitate FLLRT
85-3143	245A II	Add isolation valves to FW system
83-449A	249A II	RHR valves HV-251-F017 A&B replacements
84-3079	249A II	Add spectacle flange set; double isolation drain/test connection to RHR system
86-8006	249A II	Support Mod. to facilitate RHR heat exchanger inspection (GBB-204-H94)
V63370	249A III	Replaced existing deficient union on SP-HRC-227-3
86-8007	249B III	Support Mod. to facilitate RHR heat exchanger inspection (SP-HRC-236-H9001 & SP-HRC-2[illegible]-H9002)

DESIGN CHANGE PACKAGE NUMBER	SYSTEM/CLASS	DESCRIPTION
85-3137	249E II	Installation of a threaded pipe cap on SP-GBB-218-1
86-9054/86-9055	249G I	Installation of vents and drains on loops "A" & "B" RHR
83-449A/86-9054 86-9055	249G II	RHR valves HV-251F017 A&B valve replacement; installation of vents drains on loops "A" & "B" RHR
85-3069	250A II	Replaced hard seat tilting disc with dual seat tilting disc in valve 249F014
86-9051	250B II	Replacement of RCIC steam supply turbine isolation valve HV-250F045
85-3072	252A II	Replace original disc with a new dual seat disc in valve 255F005
85-3070/85-8036	252B II	HPCI Lube Oil Ball Valve Replacement
85-3098B	253A II	Installation and rework of the SBLC pump suction piping, valves and associated supports
83-592 D&E	254A III	Add two each 2" isolation valves in ESW system
85-8011	254A III	Replaced sway strut and added stiffener plates to hanger HRC-223-H5
83-592D	254A III	ESW piping reworked to allow for installation of 2" Fuel Pool isolation valve 2-53-500 per PMR 83-592D
85-3078	255A III	Added non-ASME isolation valve and ASME check valves to non-ASME CRD drive water supply line
83-745	259A II	Utilized spare penetrations for N2 make-up piping
85-3054	261A III	Replaced capillary sensor housing with flanged tubing connection on SP-EBC-201 & 203 lines
84-3127	264B I	Mod. clamp to eliminate potential interference on hanger SP-DCA-202- H15

DESIGN CHANGE PACKAGE NUMBER	SYSTEM/CLASS	DESCRIPTION
83-745	273A II	Reroute of wetwell and drywell nitrogen make-up piping
85-3019	280D I	Addition of test connection and test isolation valves to enable testing of Reactor Vessel Flange Leakoff Excess Check Valve
V63906	283A II	Tack welded shim to rear bracket to modify the gap between the rear bracket 'ears' on hanger DBB-201-H24
84-1007	283D III	Replaced the rear bracket and added a new plate to hanger GBC-201-H248
86-9060	283E III	Reroute of piping to perform electrical modification (SP-HCC-231 & 233)

NOTE: WAs V63371 (216A III), V63370 (249 II) and V63906 (283A II) involved repairs performed by E&S construction which were not associated with design change packages.

APPENDIX A.1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY AUG1
ITEM NUMBER AUG1
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBB2181-FW-2	V-P	ISI-DBB-218-1	FW	210100	08/26/86	Y	VOL
DBB2181-FW-5	P-V	ISI-DBB-218-1	FW	210120	08/26/86	Y	VOL
DBA2022-FW-3	V-E	ISI-DBA-202-2	HPCI	121900	09/07/86	Y	VOL
DBA2022-FW-4	P-FW	ISI-DBA-202-2	HPCI	120100	09/05/86	Y	VOL
DBA2022-FW-6	FW-V	ISI-DBA-202-2	HPCI	120500	08/21/86	Y	VOL
DBA2081-FW-12	FW-V	ISI-DBA-208-1	MS	130200	08/27/86	Y	VOL
DBA2081-FW-14	E-P	ISI-DBA-208-1	MS	130100	08/22/86	Y	VOL
DBA2081-FW-20	V-E	ISI-DBA-208-1	MS	130120	08/22/86	Y	VOL
DBA2081-FW-21	E-P	ISI-DBA-208-1	MS	130140	08/22/86	Y	VOL
DBA2081-FW-22	P-E	ISI-DBA-208-1	MS	130160	08/22/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY AUG1
ITEM NUMBER AUG1
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBA2081-FH-24	P-FH	ISI-DBA-208-1	MS	130180	08/22/86	Y	VOL
VNBB213-FH-C-5	V-FH	ISI-VNB-B21-3	MS	320660	09/07/86	Y	VOL
VNBB213-FH-C-6	FH-V	ISI-VNB-B21-3	MS	230360	09/01/86	Y	VOL
VNBB213-FH-D-5	V-FH	ISI-VNB-B21-3	MS	320700	09/07/86	Y	VOL
VNBB213-FH-D-6	FH-V	ISI-VNB-B21-3	MS	230380	09/01/86	Y	VOL
VNBB214-FH-A-5	V-FH	ISI-VNB-B21-4	MS	320780	09/07/86	Y	VOL
VNBB214-FH-A-6	FH-V	ISI-VNB-B21-4	MS	230400	09/01/86	Y	VOL
VNBB214-FH-B-5	V-FH	ISI-VNB-B21-4	MS	320800	09/07/86	Y	VOL
VNBB214-FH-B-6	FH-V	ISI-VNB-B21-4	MS	230420	09/01/86	Y	VOL
DBB2181-1-B	P-SWOL	ISI-DBB-218-1	RCIC	210180	08/26/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY AUG1
ITEM NUMBER AUG1
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
DBB2213-FW-3 VOL	V-P	ISI-DBB-221-3	RCIC	260220	09/05/86	Y
DBB2213-2-A VOL	P-E	ISI-DBB-221-3	RCIC	260240	09/01/86	Y
DBB2213-2-B VOL	E-P	ISI-DBB-221-3	RCIC	260260	09/01/86	Y
DBB2222-FW-6 VOL	E-P	ISI-DBB-222-2	RHCU	280100	09/11/86	Y
DBB2222-FW-7 VOL	P-P	ISI-DBB-222-2	RHCU	280120	09/11/86	Y
DBB2222-FW-8 VOL	P-P	ISI-DBB-222-2	RHCU	280140	09/11/86	Y
DBB2222-FW-9 VOL	P-E	ISI-DBB-222-2	RHCU	280180	09/11/86	Y
DBB2222-2-A VOL	P-E	ISI-DBB-222-2	RHCU	280160	09/11/86	Y
DBB2222-6-A VOL	E-P	ISI-DBB-222-2	RHCU	280200	09/11/86	Y
DBB2222-6-B VOL	P-E	ISI-DBB-222-2	RHCU	280220	09/11/86	Y

TALLY ITEM AUG1 30

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY AUG1
ITEM NUMBER AUG1
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
TALLY CDECAT AUG1 30						

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY AUG2
ITEM NUMBER AUG2
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2071-FH-5	RED-SE EXT	ISI-DCA-207-1	CS	100140	09/11/86	Y	VOL
DCA2072-FH-10	RED-SE EXT	ISI-DCA-207-2	CS	100500	09/11/86	Y	VOL
DCA2091-FH-4	FH-P	ISI-DCA-209-1	CS	100120	09/11/86	Y	VOL
DCA2092-FH-4	FH-P	ISI-DCA-209-2	CS	100180	09/11/86	Y	VOL
DCA2081-FH-5	V-P	ISI-DCA-208-1	RHR	160100	09/05/86	Y	VOL
DCA2081-1-A	E-P	ISI-DCA-208-1	RHR	160200	09/01/86	Y	VOL
DCA2081-2-A	E-P	ISI-DCA-208-1	RHR	160180	08/27/86	Y	VOL
DCA2102-FH-9	P-V	ISI-DCA-210-2	RHR	160200	09/11/86	Y	VOL
DCB2021-FH-2	V-FH	ISI-DCB-202-1	RHR	270560	09/03/86	Y	VOL
VRRB313-FH-A-1	SE-P	ISI-VRR-B31-3	RR	180300	09/05/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY AUG2
ITEM NUMBER AUG2
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
VRRB313-FH-A-10	SWOL-P	ISI-VRR-B31-3	RR	180260	09/11/86	Y	VOL
VRRB313-10-C	P-P	ISI-VRR-B31-3	RR	180240	09/12/86	Y	VOL
VRRB314-FH-B-45	T-E	ISI-VRR-B31-4	RR	180420	09/03/86	Y	VOL
DCA2021-FH-1	T-P	ISI-DCA-202-1	RHCU	190100	09/11/86	N	VOL
DCA2022-FH-4	P-FH	ISI-DCA-202-2	RHCU	190180	09/11/86	Y	VOL
DCA2022-FH-5	FH-P	ISI-DCA-202-2	RHCU	190140	09/11/86	Y	VOL

TALLY ITEM AUG2 16
TALLY CDECAT AUG2 16

APPENDIX A.2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-E
ITEM NUMBER B4.12
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
CRD-02-19	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-02-23	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-02-27	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-02-31	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-02-35	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-02-39	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-02-43	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2
CRD-06-15	CRD PEN	C-199556	RPV		10/08/86	Y	VT-2

TALLY ITEM B4.12 8

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-E
ITEM NUMBER B4.13
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
INCORE-08-17	INCORE PEN		RPV		10/08/86	Y	VT-2
INCORE-08-49	INCORE PEN		RPV		10/08/86	Y	VT-2
INCORE-16-09	INCORE PEN		RPV		10/08/86	Y	VT-2

TALLY ITEM B4.13 3
TALLY CDECAT B-E 11

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-F
ITEM NUMBER B5.130
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2021-FH-6	P-P	ISI-DCA-202-1	RHCU	190160	09/11/86	Y	SUR
DCA2021-FH-6	P-P	ISI-DCA-202-1	RHCU	190160	09/11/86	Y	VOL
DCA2022-FH-6	P-P	ISI-DCA-202-2	RHCU	190200	09/11/86	Y	SUR
DCA2022-FH-6	P-P	ISI-DCA-202-2	RHCU	190200	09/11/86	Y	VOL

TALLY ITEM B5.130 4
TALLY CDECAT B-F 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-G-2
ITEM NUMBER B7.50
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
VNBB214-17-E-BG2	FLANGE BOLTING	ISI-VNB-B21-4	MS	320860	09/10/86	Y	VT-1
VNBB214-17-K-BG2	FLANGE BOLTING	ISI-VNB-B21-4	MS	320880	09/10/86	Y	VT-1
VNBB214-17-N-BG2	FLANGE BOLTING	ISI-VNB-B21-4	MS	320900	09/12/86	Y	VT-1
VNBB214-17-S-BG2	FLANGE BOLTING	ISI-VNB-B21-4	MS	320920	09/10/86	Y	VT-1

TALLY ITEM B7.50 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-G-2
ITEM NUMBER B7.70
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
2F010A-BG2 VT-1	VALVE BOLTING	ISI-DLA-201-1	FW		09/10/86	Y
2F010B-BG2 VT-1	VALVE BOLTING	ISI-DLA-203-1	FW		09/10/86	Y
HV2F022A-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-4	MS	320500	09/06/86	Y
HV2F022B-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-4	MS	320520	09/06/86	Y
HV2F022C-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-3	MS	320540	09/06/86	Y
HV2F022D-BG2 VT-1	VALVE BOLTING	ISI-VNB-B21-3	MS	320560	09/06/86	Y
HV2F023A-BG2 VT-1	VALVE BOLTING	ISI-VRR-B31-3	RR	180100	09/05/86	Y
HV2F023B-BG2 VT-1	VALVE BOLTING	ISI-VRR-B31-4	RR	180320	09/05/86	Y

TALLY ITEM B7.70 8

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-G-2
ITEM NUMBER B7.80
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
CRD-02-27-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-02-39-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-06-15-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-06-23-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-06-27-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-06-47-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-10-39-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-14-23-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-18-03-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-18-27-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-G-2
ITEM NUMBER B7.80
01/09/87

CID / EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
CRD-18-39-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-22-19-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-22-55-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-26-19-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-26-43-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-30-03-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-30-47-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-34-35-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-42-31-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y
CRD-42-47-BLT VT-1	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-G-2
ITEM NUMBER B7.80
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
CRD-42-59-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-46-51-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-50-35-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1
CRD-58-43-BLT	CRD HOUSING BLT	C-199557	RPV		08/25/86	Y	VT-1

TALLY ITEM B7.80 24
TALLY CDECAT B-G-2 36

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2071-FH-5	RED-SE EXT	ISI-DCA-207-1	CS	100140	09/11/86	Y	SUR
DCA2071-FH-5	RED-SE EXT	ISI-DCA-207-1	CS	100140	09/11/86	Y	VOL
DCA2071-2-A	E-P	ISI-DCA-207-1	CS	100160	09/11/86	Y	SUR
DCA2071-2-A	E-P	ISI-DCA-207-1	CS	100160	09/11/86	Y	VOL
DLA2011-FH-5	V-P	ISI-DLA-201-1	FH	110100	08/21/86	Y	SUR
DLA2011-FH-5	V-P	ISI-DLA-201-1	FH	110100	08/21/86	Y	VOL
DLA2021-FH-1	V-P	ISI-DLA-202-1	FH	110160	09/07/86	Y	SUR
DLA2021-FH-1	V-P	ISI-DLA-202-1	FH	110160	09/07/86	Y	VOL
DLA2021-FH-14	P-T	ISI-DLA-202-1	FH	110180	08/23/86	Y	SUR
DLA2021-FH-14	P-T	ISI-DLA-202-1	FH	110180	08/23/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DLA2021-FH-26	T-P	ISI-DLA-202-1	FH	110220	09/07/86	Y	SUR
DLA2021-FH-26	T-P	ISI-DLA-202-1	FH	110220	09/07/86	Y	VOL
DLA2021-FH-6	T-P	ISI-DLA-202-1	FH	110240	09/07/86	Y	SUR
DLA2021-FH-6	T-P	ISI-DLA-202-1	FH	110240	09/07/86	Y	VOL
DBA2022-FH-2	P-V	ISI-DBA-202-2	HPCI	120140	09/07/86	Y	VOL
DBA2022-FH-2	P-V	ISI-DBA-202-2	HPCI	120140	09/07/86	Y	SUR
DBA2022-FH-4	P-FH	ISI-DBA-202-2	HPCI	120100	09/05/86	Y	VOL
DBA2022-FH-4	P-FH	ISI-DBA-202-2	HPCI	120100	09/05/86	Y	SUR
DBA2022-FH-6	FH-V	ISI-DBA-202-2	HPCI	120500	08/21/86	Y	VOL
DBA2022-FH-6	FH-V	ISI-DBA-202-2	HPCI	120500	08/21/86	Y	SUR

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
VNBB213-FH-C-3	P-E	ISI-VNB-B21-3	MS	320620	09/07/86	Y	SUR
VNBB213-FH-C-3	P-E	ISI-VNB-B21-3	MS	320640	09/07/86	Y	VOL
VNBB213-FH-C-6	FH-V	ISI-VNB-B21-3	MS	230340	09/01/86	Y	SUR
VNBB213-FH-C-6	FH-V	ISI-VNB-B21-3	MS	230360	09/01/86	Y	VOL
VNBB213-FH-D-1	SE-P	ISI-VNB-B21-3	MS	320980	09/11/86	Y	SUR
VNBB213-FH-D-1	SE-P	ISI-VNB-B21-3	MS	320980	09/11/86	Y	VOL
VNBB213-FH-D-3	E-T	ISI-VNB-B21-3	MS	320680	09/07/86	Y	SUR
VNBB213-FH-D-3	E-T	ISI-VNB-B21-3	MS	320680	09/07/86	Y	VOL
VNBB214-FH-A-6	FH-V	ISI-VNB-B21-4	MS	230400	09/01/86	Y	SUR
VNBB214-FH-A-6	FH-V	ISI-VNB-B21-4	MS	230400	09/01/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBA2051-FW-2	P-E	ISI-DBA-205-1	RCIC	150160	09/05/86	Y	VOL
DBA2051-FW-2	P-E	ISI-DBA-205-1	RCIC	150160	09/05/86	Y	SUR
DCA2081-FW-5	V-P	ISI-DCA-208-1	RHR	160100	09/05/86	Y	SUR
DCA2081-FW-5	V-P	ISI-DCA-208-1	RHR	160100	09/05/86	Y	VOL
DCA2081-FW-9	FW-V	ISI-DCA-208-1	RHR	170100	09/11/86	Y	SUR
DCA2081-FW-9	FW-V	ISI-DCA-208-1	RHR	170100	09/11/86	Y	VOL
DCA2081-1-A	E-P	ISI-DCA-208-1	RHR	160200	09/01/86	Y	SUR
DCA2081-1-A	E-P	ISI-DCA-208-1	RHR	160200	09/01/96	Y	VOL
DCA2081-2-A	E-P	ISI-DCA-208-1	RHR	160180	08/27/86	Y	SUR
DCA2081-2-A	E-P	ISI-DCA-208-1	RHR	160180	08/27/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2411-FH-3	P-E	ISI-DCA-241-1	RR	180120	08/27/86	Y	SUR
DCA2411-FH-3	P-E	ISI-DCA-241-1	RR	180140	08/27/86	Y	VOL
DCA2411-3-B	T-P	ISI-DCA-241-1	RR	180160	08/27/86	Y	SUR
DCA2411-3-B	T-P	ISI-DCA-241-1	RR	180160	08/27/86	Y	VOL
VRRB313-10-C	P-P	ISI-VRR-B31-3	RR	180240	09/12/86	Y	SUR
VRRB313-10-C	P-P	ISI-VRR-B31-3	RR	180240	09/12/86	Y	VOL
DBA2011-FH-23	E-V	ISI-DBA-201-1	RHCU	190320	09/11/86	Y	VOL
DBA2011-FH-23	E-V	ISI-DBA-201-1	RHCU	190320	09/11/86	Y	SUR
DBA2011-FH-24	V-E	ISI-DBA-201-1	RHCU	190330	09/12/86	Y	VOL
DBA2011-FH-24	V-E	ISI-DBA-201-1	RHCU	190330	09/12/86	Y	SUR

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.11
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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBA2011-FH-26	E-FH	ISI-DBA-201-1	RHCU	190340	09/11/86	Y	VOL
DBA2011-FH-26	E-FH	ISI-DBA-201-1	RHCU	190340	09/11/86	Y	SUR
DBA2011-FH-4	P-E	ISI-DBA-201-1	RHCU	190260	09/11/86	Y	VOL
DBA2011-FH-4	P-E	ISI-DBA-201-1	RHCU	190260	09/11/86	Y	SUR
DBA2011-FH-47	P-E	ISI-DBA-201-1	RHCU	190300	09/11/86	Y	VOL
DBA2011-FH-47	P-E	ISI-DBA-201-1	RHCU	190300	09/11/86	Y	SUR

TALLY ITEM B9.11 56

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.12
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2081-1-B	SEAM-PIPE	ISI-DCA-208-1	RHR	160220	08/27/86	Y	SUR
DCA2081-1-B	SEAM-PIPE	ISI-DCA-208-1	RHR	160220	08/27/86	Y	VOL
DCA2081-1-C	SEAM-ELBOW	ISI-DCA-208-1	RHR	160240	09/01/86	Y	SUR
DCA2081-1-C	SEAM-ELBOW	ISI-DCA-208-1	RHR	160240	09/01/86	Y	VOL
DCA2081-1-D	SEAM-ELBOW	ISI-DCA-208-1	RHR	160260	09/01/86	Y	SUR
DCA2081-1-D	SEAM-ELBOW	ISI-DCA-208-1	RHR	160260	09/01/86	Y	VOL
DCA2081-2-E	SEAM-PIPE	ISI-DCA-208-1	RHR	160160	08/27/86	Y	SUR
DCA2081-2-E	SEAM-PIPE	ISI-DCA-208-1	RHR	160160	08/27/86	Y	VOL
DCA2081-6-A	SEAM-PIPE	ISI-DCA-208-1	RHR	160140	09/05/86	Y	SUR
DCA2081-6-A	SEAM-PIPE	ISI-DCA-208-1	RHR	160140	09/05/86	Y	VOL

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OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.12
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2411-3-E	PIPE SEAM	ISI-DCA-241-1	RR	180700	08/27/86	Y	SUR
DCA2411-3-E	PIPE SEAM	ISI-DCA-241-1	RR	180700	08/27/86	Y	VOL
DCA2411-3-G	PIPE SEAM	ISI-DCA-241-1	RR	180720	08/27/86	N	VOL
DCA2421-2-C	PIPE SEAM	ISI-DCA-242-1	RR	180800	08/27/86	N	VOL
DCA2421-2-D	PIPE SEAM	ISI-DCA-242-1	RR	180780	08/27/86	N	VOL
DCA2421-3-E	PIPE SEAM	ISI-DCA-242-1	RR	180700	08/27/86	N	VOL
DCA2421-3-F	PIPE SEAM	ISI-DCA-242-1	RR	180740	08/27/86	N	VOL
VRRB313-4-C	ELBOW SEAM	ISI-VRR-B31-3	RR	180500	08/22/86	N	VOL
VRRB313-5-C	ELBOW SEAM	ISI-VRR-B31-3	RR	180520	08/26/86	N	VOL
VRRB313-6-C	ELBOW SEAM	ISI-VRR-B31-3	RR	180540	08/26/86	N	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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ITEM NUMBER B9.12
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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
VRRB313-7-C	ELBOW SEAM	ISI-VRR-B31-3	RR	180560	08/26/86	N	VOL
VRRB313-8-C	ELBOW SEAM	ISI-VRR-B31-3	RR	180580	08/26/86	N	VOL
VRRB314-4-C	ELBOW SEAM	ISI-VRR-B31-4	RR	180600	08/26/86	N	VOL
VRRB314-5-C	ELBOW SEAM	ISI-VRR-B31-4	RR	180620	08/26/86	N	VOL
VRRB314-6-C	ELBOW SEAM	ISI-VRR-B31-4	RR	180640	08/26/86	N	VOL
VRRB314-7-C	ELBOW SEAM	ISI-VRR-B31-4	RR	180660	08/26/86	N	VOL
VRRB314-8-C	ELBOW SEAM	ISI-VRR-B31-4	RR	180680	08/26/86	N	VOL

TALLY ITEM B9.12 27

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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CODE CATEGORY B-J
ITEM NUMBER B9.21
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
SPDCA2061-FN-11	P-E	ISI-SP-DCA-206-1	SBLC	425000	09/11/86	Y	SUR

TALLY ITEM B9.21 1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.31
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
VNBB213-19-C	P-SWOL	ISI-VNB-B21-3	MS	320720	09/07/86	Y	SUR
VNBB213-19-C	P-SWOL	ISI-VNB-B21-3	MS	320740	09/07/86	Y	VOL
VNBB213-19-L	P-SWOL	ISI-VNB-B21-3	MS	320760	08/26/86	Y	SUR
VNBB213-19-L	P-SWOL	ISI-VNB-B21-3	MS	320760	08/26/86	Y	VOL

TALLY ITEM B9.31 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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CODE CATEGORY B-J
ITEM NUMBER B9.40
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
SPDCA2061-FH-13	P-NOZ	ISI-SP-DCA-206-1	SBLC	425200	09/11/86	Y	SUR
SPDCA2061-FH-14	T-P	ISI-SP-DCA-206-1	SBLC	425400	09/11/86	Y	SUR
SPDCA2061-SH-1	E-P	ISI-SP-DCA-206-1	SBLC	426200	09/11/86	Y	SUR

TALLY ITEM B9.40 3
TALLY CDECAT B-J 91

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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CODE CATEGORY B-K-1
ITEM NUMBER B10.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
MST222-HW-8A	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8B	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8C	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8D	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8E	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8F	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8G	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
MST222-HW-8H	P-LUG/H36	ISI-VNB-B21-3-H	MS	320580	08/20/86	Y	SUR
DCB2021-HW-2A	PLT-P/H02	ISI-DCB-202-1-H	RHR	271200	09/07/86	Y	SUR
DCB2021-HW-2B	PLT-P/H02	ISI-DCB-202-1-H	RHR	271200	09/07/86	Y	SUR

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ITEM NUMBER B10.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCB2021-HW-2C	PLT-P/H02	ISI-DCB-202-1-H	RHR	271200	09/07/86	Y	SUR
DCB2021-HW-2D	PLT-P/H02	ISI-DCB-202-1-H	RHR	271200	09/07/86	Y	SUR

TALLY ITEM B10.10 12
TALLY CDECAT B-K-1 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-M-2
ITEM NUMBER B12.50
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
2F010A	VALVE INT SUR	ISI-DLA-201-1	FW		09/10/86	Y	VT-3
2F010B	VALVE INT SUR	ISI-DLA-203-1	FW		09/10/86	N	VT-3
HV2F028D	VALVE INT SUR	ISI-VNB-B21-3	MS		11/26/86	Y	VT-3
HV2F015A	VALVE INT SUR	ISI-DCA-210-1	RHR		10/20/86	Y	VT-3

TALLY ITEM B12.50 4
TALLY CDECAT B-M-2 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
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ITEM NUMBER B13.10
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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DRY TUBE 16-45	INCORE DRY TUBE	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
DRY TUBE 16-53	INCORE DRY TUBE	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
DRY TUBE 24-37	INCORE DRY TUBE	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
DRY TUBE 32-37	INCORE DRY TUBE	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
DRY TUBE 40-45	INCORE DRY TUBE	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
DRY TUBE 48-13	INCORE DRY TUBE	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 01	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 02	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 03	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 04	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3

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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
JT PMP HLD DN BM 05	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 06	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 07	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 08	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 09	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 10	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 11	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 12	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 13	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 14	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3

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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
JT PMP HLD DN BM 15	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 16	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 17	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 18	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 19	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP HLD DN BM 20	HOLD DWN BM/BLT	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
JT PMP 01 INST LINE	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3	RPV		09/03/86	Y	VT-3
JT PMP 02 INST LINE	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3	RPV		09/03/86	Y	VT-3
JT PMP 11 INST LINE	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3	RPV		09/03/86	Y	VT-3
JT PMP 12 INST LINE	WELDS/SUPPORTS	ISI-RPV-INT-001 SHT 3	RPV		09/03/86	Y	VT-3

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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N2A JT PMP RSTRAINR	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2A JT PMP 01	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2A JT PMP 02	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2A RISER BRACE	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2B JT PMP RSTRAINR	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2B JT PMP 03	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2B JT PMP 04	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2B RISER BRACE	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2C JT PMP RSTRAINR	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2C JT PMP 05	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3

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CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N2C JT PMP 06	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2C RISER BRACE	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2D JT PMP RSTRAINR	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2D JT PMP 07	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2D JT PMP 08	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2D RISER BRACE	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2E JT PMP RSTRAINR	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2E JT PMP 09	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2E JT PMP 10	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3
N2E RISER BRACE	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y	VT-3

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01/09/87

CID EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
N2F JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2F JT PMP 11 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2F JT PMP 12 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2F RISER BRACE VT-3	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2G JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2G JT PMP 13 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2G JT PMP 14 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2G RISER BRACE VT-3	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2H JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2H JT PMP 15 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y

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01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
N2H JT PMP 16 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2H RISER BRACE VT-3	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2J JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2J JT PMP 17 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2J JT PMP 18 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2J RISER BRACE VT-3	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2K JT PMP RSTRAINR VT-3	WEDGE/SCREWS	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2K JT PMP 19 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2K JT PMP 20 VT-3	JET PUMP/RISER	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y
N2K RISER BRACE VT-3	BRACE/WELD	ISI-RPV-INT-001 SHT 3&4	RPV		09/03/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N4A SPARG	FW SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG BRKT 1	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG BRKT 2	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG NOZ 1J	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG NOZ 1T	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG NOZ 2J	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG NOZ 2T	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG WELD A	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG WELD B	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4A SPARG WELD C	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
N4A SPARG WELD D VT-3	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4A SPARG WELD E VT-3	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4A SPARG WELD F VT-3	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG VT-3	FW SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG BRKT 1 VT-3	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG BRKT 2 VT-3	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG NOZ 1K VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG NOZ 1S VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG NOZ 2K VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4B SPARG NOZ 2S VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N4B SPARG WELD A	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4B SPARG WELD B	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4B SPARG WELD C	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4B SPARG WELD D	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4B SPARG WELD E	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4B SPARG WELD F	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG	FW SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG BRKT 1	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG BRKT 2	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG NOZ 1J	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N4C SPARG NOZ 1T	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG NOZ 2J	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG NOZ 2T	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG WELD A	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG WELD B	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG WELD C	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG WELD D	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG WELD E	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4C SPARG WELD F	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4D SPARG	FW SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
N4D SPARG BRKT 1 VT-3	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG BRKT 2 VT-3	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG NOZ 1L VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG NOZ 1R VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG NOZ 2L VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG NOZ 2R VT-3	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG WELD A VT-3	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG WELD B VT-3	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG WELD C VT-3	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N4D SPARG WELD D VT-3	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N4D SPARG WELD E	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4D SPARG WELD F	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG	FW SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG BRKT 1	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG BRKT 2	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG NOZ 1J	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG NOZ 1T	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG NOZ 2J	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG NOZ 2T	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG WELD A	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N4E SPARG WELD B	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG WELD C	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG WELD D	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG WELD E	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4E SPARG WELD F	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG	FW SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG BRKT 1	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG BRKT 2	BRACKETS/PINS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG NOZ 1M	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG NOZ 1P	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N4F SPARG NOZ 2M	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG NOZ 2P	SPARG NOZ WELD	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG WELD A	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG WELD B	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG WELD C	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG WELD D	TEE-SPARG	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG WELD E	SPARG-SPARG END	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N4F SPARG WELD F	SPARG END-BRKT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A HEADER	CS HEADER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A HEADER BRKT 1	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N5A HEADER BRKT 2	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A HEADER BRKT 3	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A HEADER BRKT 4	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A SPARG B	CS SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A SPARG D	CS SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A SPARG NOZ B	64 NOZZLES	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5A SPARG NOZ D	64 NOZZLES	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5B HEADER	CS HEADER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5B HEADER BRKT 1	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
N5B HEADER BRKT 2	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
N5B HEADER BRKT 3 VT-3	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N5B HEADER BRKT 4 VT-3	BRACKET/BOLTS	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N5B SPARG A VT-3	CS SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N5B SPARG C VT-3	CS SPARGER	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N5B SPARG NOZ A VT-3	64 NOZZLES	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
N5B SPARG NOZ C VT-3	64 NOZZLES	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
SPARG SUPPORT 01 VT-3	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
SPARG SUPPORT 02 VT-3	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
SPARG SUPPORT 03 VT-3	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y
SPARG SUPPORT 04 VT-3	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-1
ITEM NUMBER B13.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
SPARG SUPPORT 05	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 06	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 07	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 08	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 09	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 10	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 11	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3
SPARG SUPPORT 12	SPARGER SUPPORT	ISI-RPV-INT-001 SHT 1	RPV		09/03/86	Y	VT-3

TALLY ITEM B13.10 178
TALLY CDECAT B-N-1 178

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-2
ITEM NUMBER B13.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
N2A RISR SUP WELD A	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	RPV		09/03/86	Y	VT-1
N2A RISR SUP WELD B	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	RPV		09/03/86	Y	VT-1
N2F RISR SUP WELD A	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	RPV		09/03/86	Y	VT-1
N2F RISR SUP WELD B	RPV BELT ATTACH	ISI-RPV-INT-001 SHT 4	RPV		09/03/86	Y	VT-1

TALLY ITEM B13.20 4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-N-2
ITEM NUMBER B13.21
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DRYER SUP BRKT A	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/03/86	N	VT-3
DRYER SUP BRKT B	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/10/86	N	VT-3
DRYER SUP BRKT C	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/10/86	N	VT-3
DRYER SUP BRKT D	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/10/86	N	VT-3
HLD DWN BRKT WELD A	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/06/86	Y	VT-3
HLD DWN BRKT WELD B	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/06/86	Y	VT-3
HLD DWN BRKT WELD C	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/06/86	Y	VT-3
HLD DWN BRKT WELD D	RPV ATTACH WELD	ISI-RPV-INT-001 SHT 2	RPV		09/06/86	Y	VT-3

TALLY ITEM B13.21 8
TALLY CDECAT B-N-2 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-C
ITEM NUMBER C3.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBB2014-HW8E	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8F	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8G	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8H	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8I	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8J	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8K	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2014-HW8L	P-LUG/H16	ISI-GBB-201-4-H	CS	200150	08/06/86	Y	SUR
GBB2031-HW-1A	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
GBB2031-HW-1B	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-C
ITEM NUMBER C3.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBB2031-HW-1C	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
GBB2031-HW-1D	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
GBB2031-HW-1E	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
GBB2031-HW-1F	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
GBB2031-HW-1G	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
GBB2031-HW-1H	P-LUG/H8	ISI-GBB-203-1-H	CS	200195	08/07/86	Y	SUR
DBB2181-HW1A	P-PLT/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2181-HW1B	P-PLT/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2181-HW1C	P-PLT/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2181-HW1D	P-PLT/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-C
ITEM NUMBER C3.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBB2181-HW1E	P-LUG/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2181-HW1F	P-LUG/H02	ISI-EBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2181-HW1G	P-LUG/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2181-HW1H	P-LUG/H02	ISI-DBB-218-1-H	FW	210140	08/18/86	Y	SUR
DBB2141-HW1A	P-LUB/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y	SUR
DBB2141-HW1B	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y	SUR
DBB2141-HW1C	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y	SUR
DBB2141-HW1D	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y	SUR
DBB2141-HW1E	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y	SUR
DBB2141-HW1F	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y	SUR

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-C
ITEM NUMBER C3.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
DBB2141-HW1G SUR	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y
DBB2141-HW1H SUR	P-LUG/H9	ISI-DBB-214-1-H	HPCI	220180	08/12/86	Y
DBB2141-HW2A SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2B SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2C SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2D SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2E SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2F SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2G SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y
DBB2141-HW2H SUR	P-LUG/H5	ISI-DBB-214-1-H	HPCI	220200	08/12/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-C
ITEM NUMBER C3.20
01/09/87

CID EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
HBB2091-HW-2A SUR	P-PLT/H54	ISI-HBB-209-1-H	HPCI	220100	08/14/86	Y
HBB2091-HW-2B SUR	P-PLT/H54	ISI-HBB-209-1-H	HPCI	220100	08/14/86	Y
HBB2091-HW-2C SUR	P-PLT/H54	ISI-HBB-209-1-H	HPCI	220100	08/14/86	Y
HBB2091-HW-2D SUR	P-PLT/H54	ISI-HBB-209-1-H	HPCI	220100	08/14/86	Y
DBB2031-HW5A SUR	P-PLT/H17	ISI-DBB-203-1-H	MS	230300	09/07/86	Y
DBB2031-HW5B SUR	P-PLT/H17	ISI-DBB-203-1-H	MS	230300	09/07/86	Y
DBB2031-HW5C SUR	P-PLT/H17	ISI-DBB-203-1-H	MS	230300	09/07/86	Y
DBB2211-HW1A SUR	P-PLT/H07	ISI-DBB-221-1-H	RCIC	260220	08/18/86	Y
DBB2211-HW1B SUR	P-PLT/H07	ISI-DBB-221-1-H	RCIC	260220	08/18/86	Y
DBB2211-HW1C SUR	P-PLT/H07	ISI-DBB-221-1-H	RCIC	260220	08/18/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-C
ITEM NUMBER C3.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
DBB2211-HW1D SUR	P-PLT/H07	ISI-DBB-221-1-H	RCIC	260220	08/18/86	Y
GBB2062-HW-2A SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2B SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2C SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2D SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2E SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2F SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2G SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y
GBB2062-HW-2H SUR	P-LUG/H14	ISI-GBB-206-2-H	RHR	270260	08/07/86	Y

TALLY ITEM C3.20 59
TALLY CDECAT C-C 59

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F
ITEM NUMBER C5.11
01/09/87

CID EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
HBB2081-FH-2 SUR	FL-T	ISI-HBB-208-1	HPCI	220260	08/14/86	Y
HBB2081-1-B SUR	P-T	ISI-HBB-208-1	HPCI	220300	08/14/86	Y
HBB2081-2-C SUR	E-T	ISI-HBB-208-1	HPCI	220320	08/14/86	Y
HBB2081-3-B SUR	P-E	ISI-HBB-208-1	HPCI	220340	08/14/86	Y
GBB2311-FH-1 SUR	CP-P	ISI-GBB-231-1	MSIV	240100	09/11/86	Y
EBB2031-FH-1 SUR	NOZ-P	ISI-EBB-203-1	RCIC	260100	08/16/86	Y
EBB2031-FH-5 SUR	P-FL	ISI-EBB-203-1	RCIC	260160	08/16/86	Y
EBB2031-3-C SUR	E-P	ISI-EBB-203-1	RCIC	260180	08/16/86	Y
GBB2041-1-B SUR	FL-E	ISI-GBB-204-1	RHR	270300	08/12/86	Y
GBB2044-2-C SUR	P-E	ISI-GBB-204-4	RHR	270200	08/14/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F
ITEM NUMBER C5.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBB2051-FH-3	V-P	ISI-GBB-205-1	RHR	270580	09/01/86	Y	SUR

TALLY ITEM C5.11 11

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F
ITEM NUMBER C5.21
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
VBB2021-FH-2	P-E	ISI-VBB-202-1	CRD	290120	09/10/86	Y	SUR
VBB2021-FH-2	P-E	ISI-VBB-202-1	CRD	290120	09/10/86	Y	VOL
VBB2021-FH-4	P-T	ISI-VBB-202-1	CRD	290140	08/20/86	Y	SUR
VBB2021-FH-4	P-T	ISI-VBB-202-1	CRD	290140	08/20/86	Y	VOL
DBB2181-FH-5	P-V	ISI-DBB-218-1	FH	210120	08/26/86	Y	VOL
DBB2181-FH-5	P-V	ISI-DBB-218-1	FH	210120	08/26/86	Y	SUR
DBB2141-FH-9	E-P	ISI-DBB-214-1	HPCI	220160	09/05/86	Y	VOL
DBB2141-FH-9	E-P	ISI-DBB-214-1	HPCI	220160	09/05/86	Y	SUR
DBB2031-9-A	P-RED	ISI-DBB-203-1	MS	230100	09/11/86	Y	SUR
DBB2031-9-A	P-RED	ISI-DBB-203-1	MS	230100	09/11/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F
ITEM NUMBER C5.21
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBB2291-FW-11	P-CP	ISI-DBB-229-1	MS	230200	08/27/86	Y	SUR
DBB2291-FW-11	P-CP	ISI-DBB-229-1	MS	230200	08/27/86	Y	VOL
VNBB214-FW-B-7	V-RED	ISI-VNB-B21-4	MS	230440	09/01/86	Y	SUR
VNBB214-FW-B-7	V-RED	ISI-VNB-B21-4	MS	230440	09/01/86	Y	VOL
DBB2211-FW-6	P-E	ISI-DBB-221-1	RCIC	260200	09/11/86	Y	VOL
DBB2211-FW-6	P-E	ISI-DBB-221-1	RCIC	260200	09/11/86	Y	SUR
GBB2061-FW-6	V-P	ISI-GBB-206-1	RHR	270460	09/05/86	Y	SUR
GBB2061-FW-6	V-P	ISI-GBB-206-1	RHR	270460	09/05/86	Y	VOL
GBB2061-FW-8	P-FL	ISI-GBB-206-1	RHR	270480	08/27/86	Y	SUR
GBB2061-FW-8	P-FL	ISI-GBB-206-1	RHR	270480	08/27/86	Y	VOL

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F
ITEM NUMBER C5.21
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBB2062-2-B	T-P	ISI-GBB-206-2	RHR	270240	09/05/86	Y	SUR
GBB2062-2-B	T-P	ISI-GBB-206-2	RHR	270240	09/05/86	Y	VOL

TALLY ITEM C5.21 22

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F
ITEM NUMBER C5.31
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
DBB2181-1-B SUR	P-SHOL	ISI-DBB-218-1	RCIC	210180	08/26/86	Y

TALLY ITEM C5.31 1
TALLY CDECAT C-F 34

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F*
ITEM NUMBER C5.11
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBB2014-1-A	FL-E	ISI-GBB-201-4	CS	200200	08/07/86	Y	SUR
GBB2014-8-A	P-FL	ISI-GBB-201-4	CS	200190	08/07/86	Y	SUR

TALLY ITEM C5.11 2

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-F*
ITEM NUMBER C5.21
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
DBB2131-FH-3 VOL	P-P	ISI-DBB-213-1	CS	200500	08/20/86	Y
DBB2131-FH-3 SUR	P-P	ISI-DBB-213-1	CS	200500	08/20/86	Y
DBB2171-FH-9 VOL	T-P	ISI-DBB-217-1	HPCI	220360	08/18/86	Y
DBB2171-FH-9 SUR	T-P	ISI-DBB-217-1	HPCI	220360	08/18/86	Y

TALLY ITEM C5.21 4
TALLY CDECAT C-F* 6

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-G
ITEM NUMBER C6.10
01/09/87

CID EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
2P206D-359-1-2 SUR	FL-SH	C-199560	CS		0	Y
2P206D-359-2-L1 SUR	SEAM	C-199560	CS		0	Y
2P206D-359-2-L2 SUR	SEAM	C-199560	CS	0	0	Y
2P206D-359-2-2 SUR	SH-SH	C-199560	CS		0	Y
2P206D-359-2-3 SUR	SH-SH	C-199560	CS		0	Y
2P206D-359-3-7 SUR	CIRC	C-199560	CS		0	Y
2P206D-361-3-13 SUR	FL-P	C-199560	CS	201500	08/07/86	Y
2P206D-361-4-6 SUR	E-FL	C-199560	CS	201510	08/07/86	Y
2P206D-361-5-L SUR	SEAM	C-199560	CS	201520	08/07/86	Y
2P206D-361-5-13 SUR	P-SH	C-199560	CS	201530	08/07/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY C-G
ITEM NUMBER C6.10
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
2P206D-361-5-6	E-SH	C-199560	CS	201540	08/07/86	Y	SUR
2P206D-361-5-8	PLT-SH	C-199560	CS	201550	08/07/86	Y	SUR

TALLY ITEM C6.10 12
TALLY CDECAT C-G 12

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY D-B
ITEM NUMBER D2.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
HRC2141-H01-IA VT-3	H01/1 INT ATT	ISI-HRC-241-1	RHRSW	340040	08/18/86	Y
HRC2142-H04-IA VT-3	H04/10 INT ATT	ISI-HRC-214-2-H	RHRSW	340160	08/11/86	Y
HRC2142-H05-IA VT-3	H05/1 INT ATT	ISI-HRC-214-2-H	RHRSW	340100	08/11/86	Y

TALLY ITEM D2.20 3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY D-B
ITEM NUMBER D2.30
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBC20110-H143-IA	H143/4 INT ATT	ISI-GBC-201-10-H	MS	320340	09/06/86	Y	VT-3
GBC20112-H254-IA	H254/4 INT ATT	ISI-GBC-201-12-H	MS	320180	09/05/86	Y	VT-3
GBC20113-H180-IA	H180/4 INT ATT	ISI-GBC-201-13-H	MS	320440	09/06/86	Y	VT-3
GBC20113-H186-IA	H186/4 INT ATT	ISI-GBC-201-13-H	MS	320220	09/06/86	Y	VT-3
HRC2121-H15-IA	H15/1 INT ATT	ISI-HRC-212-1-H	RHRSH	340140	08/11/86	Y	VT-3

TALLY ITEM D2.30 5

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY D-B
ITEM NUMBER D2.40
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBC2017-H335-IA	H335/4 INT ATT	ISI-GBC-201-7-H	MS	320840	09/06/86	Y	VT-3
GBC2017-H63-IA	H63/4 INT ATT	ISI-GBC-201-7-H	MS	320280	09/06/86	Y	VT-3
GBC2018-H340-IA	H340/1 INT ATT	ISI-GBC-201-8-H	MS	320840	09/05/86	Y	VT-3
GBC2018-H41-IA	H41/4 INT ATT	ISI-GBC-201-8-H	MS	320300	09/10/86	Y	VT-3
HRC2121-H14-IA	H14/4 INT ATT	ISI-HRC-212-1-H	RHRSW	340200	08/11/86	Y	VT-3
HRC2122-H17-IA	H17/4 INT ATT	ISI-HRC-212-2-H	RHRSW	340080	08/13/86	Y	VT-3

TALLY ITEM D2.40 6
TALLY CDECAT D-B 14

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY D-C
ITEM NUMBER D3.20
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
HCC2034-H52-IA	H52/8 INT ATT	ISI-HCC-203-4-H	FPC	200440	08/07/86	Y	VT-3

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

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY F-PMP
ITEM NUMBER F-CSP
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
2P-206D	ANCHOR BOLTS	C-199560	CS	100040	09/12/86	Y	VT-3

TALLY ITEM F-CSP 1

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY F-PMP
ITEM NUMBER F-RCP
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
RHS200-HA5	SPRING	ISI-VRR-B31-3-H	RR	180180	08/22/86	Y	VT-3
RHS200-HA5	SPRING	ISI-VRR-B31-3-H	RR	180180	08/22/86	Y	VT-4
RHS200-HA6	SPRING	ISI-VRR-B31-3-H	RR	180200	08/22/86	Y	VT-3
RHS200-HA6	SPRING	ISI-VRR-B31-3-H	RR	180200	08/22/86	Y	VT-4

TALLY ITEM F-RCP 4
TALLY CDECAT F-PMP 5

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY NCHOR
ITEM NUMBER F-ANCH
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2091-HX-16A	FL-HEAD	ISI-DCA-209-1-H	CS	100100	08/14/86	Y	VT-3
HRC2061-H12	ANCHOR	ISI-HRC-206-1-H	ESW	300200	08/15/86	Y	VT-3
DLA2031-HX-9B	FL-HEAD	ISI-DLA-203-1-H	FW	210200	09/11/86	Y	VT-3
HBB2091-H54	ANCHOR	ISI-HBB-209-1-H	HPCI	220120	08/13/86	Y	VT-3
DBB2052-H12	ANCHOR	ISI-DBB-205-2-H	MS	230120	09/06/86	Y	VT-3
GBC20115-HX-400S	FL HEAD	ISI-GBC-201-15-H	MS	320100	09/10/86	Y	VT-3
GBB2311-H51	ANCHOR	ISI-GBB-231-1-H	MSIV	240120	08/15/86	Y	VT-3
DBB2211-H7	ANCHOR	ISI-DBB-221-1-H	RCIC	260240	08/18/86	Y	VT-3
DCA2081-HX-12	FL HEAD	ISI-DCA-208-1-H	RHR	170200	08/11/86	Y	VT-3
DCB2021-H2	ANCHOR	ISI-DCB-202-1-H	RHR	271220	09/06/86	Y	VT-3

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY NCHOR
ITEM NUMBER F-ANCH
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
HRC2142-H4 VT-3	ANCHOR	ISI-HRC-214-2-H	RHRSW	340180	08/07/86	Y
DCA2022-H16 VT-3	FL HEAD	ISI-DCA-202-2-H	RHCU	190220	09/10/86	Y
SPDCA2062-HX-42 VT-3	ANCHOR	ISI-SP-DCA-206-2-H	SBLC	420100	08/18/86	Y

TALLY ITEM F-ANCH 13
TALLY CDECAT NCHOR 13

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY RIGID
ITEM NUMBER F-RIGD
01/09/87

CID EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
VBB2021-H1 VT-3	RIG HANG	ISI-VBB-202-1-H	CRD	290100	08/15/86	Y
VBB2021-H6 VT-3	RIG HANG	ISI-VBB-202-1-H	CRD	290160	08/15/86	Y
GBB2014-H13 VT-3	SHAY ST	ISI-GBB-201-4-H	CS	200300	08/06/86	Y
GBB2014-H16 VT-3	SHAY ST	ISI-GBB-201-4-H	CS	200180	08/06/86	Y
GBB2031-H8 VT-3	SHAY ST	ISI-GBB-203-1-H	CS	200290	08/07/86	Y
HRC2011-H7 VT-3	SHAY ST	ISI-HRC-201-1-H	ESW	300160	09/01/86	Y
HRC2021-H4 VT-3	SHAY ST	ISI-HRC-202-1-H	ESW	300180	08/15/86	Y
HRC2041-H1 VT-3	GUIDE	ISI-HRC-204-1-H	ESW	300120	08/15/86	Y
HBC2171-H6 VT-3	SHAY ST	ISI-HBC-217-1-H	FPC	200420	08/11/86	Y
HCC2031-H11 VT-3	GUIDE	ISI-HCC-203-1-H	FPC	200480	08/11/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY RIGID
ITEM NUMBER F-RIGD
01/09/87

CID EXAM TYPE	DESC	ISI-ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
DBB2181-H2 VT-3	RIG HANG	ISI-DBB-218-1-H	FH	210160	08/18/86	Y
DBB2141-H18 VT-3	SWAY ST	ISI-DBB-214-1-H	HPCI	220380	08/18/86	Y
DBB2141-H5 VT-3	RIG HANG	ISI-DBB-214-1-H	HPCI	220220	08/14/86	Y
DBB2141-H9 VT-3	SWAY ST	ISI-DBB-214-1-H	HPCI	220240	08/14/86	Y
HBB2081-H9 VT-3	SWAY ST	ISI-HBB-208-1-H	HPCI	220280	08/14/86	Y
DBB2031-H1 VT-3	RIG HANG	ISI-DBB-203-1-H	MS	230340	09/06/86	Y
DBB2031-H10 VT-3	SWAY ST	ISI-DBB-203 1-H	MS	230160	08/21/86	Y
DBB2291-H1 VT-3	RIGIDST	ISI-DBB-229-1-H	MS	230220	09/22/86	Y
GBC2017-H259 VT-3	SWAY ST	ISI-GBC-201-7-H	MS	320260	09/06/86	Y
DBA2051-H14 VT-3	SWAY ST	ISI-DBA-205-1-H	RCIC	150120	09/10/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY RIGID
ITEM NUMBER F-RIGD
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBB2212-H26	SHAY ST	ISI-DBB-221-2-H	RCIC	260200	09/10/86	Y	VT-3
GBB2041-H12	SHAY ST	ISI-GBB-204-1-H	RHR	270340	08/13/86	Y	VT-3
GBB2044-H20	SHAY ST	ISI-GBB-204-4-H	RHR	270180	08/07/86	Y	VT-3
GBB2061-H8	SHAY ST	ISI-GBB-206-1-H	RHR	270500	08/14/86	Y	VT-3
GBB2062-H14	SHAY ST	ISI-GBB-206-2-H	RHR	270280	08/11/86	Y	VT-3
GBB2122-H57	SHAY ST	ISI-GBB-212-2-H	RHR	270120	08/07/86	Y	VT-3
HRC2121-H13	SHAY ST	ISI-HRC-212-1-H	RHRSW	340220	08/07/86	Y	VT-3
HRC2122-H18	SHAY ST	ISI-HRC-212-2-H	RHRSW	340060	08/13/86	Y	VT-3
SPDCA2061-H3	RIG SUP	ISI-DCA-206-1-H	SBLC	425000	09/10/86	Y	VT-3
SPDCA2063-H2611	SHAY ST	ISI-SP-DCA-206-3-H	SBLC	420120	08/15/86	Y	VT-3

TALLY ITEM F-RIGD 30

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY RIGID
ITEM NUMBER F-RIGD
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
TALLY CDECAT RIGID 30						

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SNUB
ITEM NUMBER F-VT34
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DCA2092-H10	SNUB MECH	ISI-DCA-209-2-H	CS	100200	09/10/86	Y	VT-3
DCA2092-H10	SNUB MECH	ISI-DCA-209-2-H	CS	100200	09/10/86	Y	VT-4
HRC2011-H14	SNUB MECH	ISI-HRC-201-1-H	ESW	300140	08/18/86	Y	VT-3
HRC2011-H14	SNUB MECH	ISI-HRC-201-1-H	ESW	300140	08/18/86	Y	VT-4
HBC2171-H11	SNUB MECH	ISI-HBC-217-1-H	FPC	200400	08/07/86	Y	VT-3
HBC2171-H11	SNUB MECH	ISI-HBC-217-1-H	FPC	200400	08/07/86	Y	VT-4
DLA2021-H15	SNUB MECH	ISI-DLA-202-1-H	FW	110260	09/06/86	Y	VT-3
DLA2021-H15	SNUB MECH	ISI-DLA-202-1-H	FW	110260	09/06/86	Y	VT-4
HBB2091-H58	SNUB MECH	ISI-HBB-209-1-H	HPCI	220140	08/16/86	Y	VT-3
HBB2091-H58	SNUB MECH	ISI-HBB-209-1-H	HPCI	220140	08/16/86	Y	VT-4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SNUB
ITEM NUMBER F-VT34
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBC20110-H143	SNUB MECH	ISI-GBC-201-10-H	MS	320320	09/06/86	Y	VT-3
GBC20110-H143	SNUB MECH	ISI-GBC-201-10-H	MS	320320	09/06/86	Y	VT-4
GBC20112-H254	SNUB MECH	ISI-GBC-201-12-H	MS	320160	09/05/86	Y	VT-3
GBC20112-H254	SNUB MECH	ISI-GBC-201-12-H	MS	320160	09/05/86	Y	VT-4
GBC20113-H186	SNUB MECH	ISI-GBC-201-13-H	MS	320200	09/01/86	Y	VT-3
GBC20113-H186	SNUB MECH	ISI-GBC-201-13-H	MS	320200	09/01/86	Y	VT-4
GBC20114-H168	SNUB MECH	ISI-M-201-14-H	MS	320360	09/06/86	Y	VT-3
GBC20114-H168	SNUB MECH	ISI-M-201-14-H	MS	320360	09/06/86	Y	VT-4
GBC20118-H111	SNUB MECH	ISI-GBC-201-18-H	MS	320120	09/01/86	Y	VT-3
GBC20118-H111	SNUB MECH	ISI-GBC-201-18-H	MS	320120	09/01/86	Y	VT-4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SNUB
ITEM NUMBER F-VT34
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBC20118-H119	SNUB MECH	ISI-GBC-201-18-H	MS	320240	09/05/86	Y	VT-3
GBC20118-H119	SNUB MECH	ISI-GBC-201-18-H	MS	320240	09/05/86	Y	VT-4
GBC2017-H106	SNUB MECH	ISI-GBC-201-7-H	MS	320140	09/05/86	Y	VT-3
GBC2017-H106	SNUB MECH	ISI-GBC-201-7-H	MS	320140	09/05/86	Y	VT-4
GBC2018-H278	SNUB MECH	ISI-GBC-201-8-H	MS	320480	09/05/86	Y	VT-3
GBC2018-H278	SNUB MECH	ISI-GBC-201-8-H	MS	320480	09/05/86	Y	VT-4
DBA2051-H6	SNUB MECH	ISI-DBA-205-1-H	RCIC	150140	09/11/86	Y	VT-3
DBA2051-H6	SNUB MECH	ISI-DBA-205-1-H	RCIC	150140	09/11/86	Y	VT-4
DBB2151-H11	SNUB MECH	ISI-DBB-215-1-H	RHR	270140	08/07/86	Y	VT-3
DBB2151-H11	SNUB MECH	ISI-DBB-215-1-H	RHR	270140	08/07/86	Y	VT-4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SNUB
ITEM NUMBER F-VT34
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
DBB2151-H51	SNUB MECH	ISI-DBB-215-1-H	RHR	270160	08/07/86	Y	VT-3
DBB2151-H51	SNUB MECH	ISI-DBB-215-1-H	RHR	270160	08/07/86	Y	VT-4
DBB2151-H59	SNUB MECH	ISI-DBB-215-1-H	RHR	270380	08/14/86	Y	VT-3
DBB2151-H59	SNUB MECH	ISI-DBB-215-1-H	RHR	270380	08/14/86	Y	VT-4
DCA2081-H5	SNUB MECH	ISI-DCA-208-1-H	RHR	160120	09/06/86	Y	VT-3
DCA2081-H5	SNUB MECH	ISI-DCA-208-1-H	RHR	160120	09/06/86	Y	VT-4
GBB2041-H3	SNUBMECH	ISI-GBB-204-1-H	RHR	270400	08/13/86	Y	VT-3
GBB2041-H3	SNUBMECH	ISI-GBB-204-1-H	RHR	270400	08/13/86	Y	VT-4
GBB2051-H93	SNUB MECH	ISI-GBB-205-1-H	RHR	270420	08/13/86	Y	VT-3
GBB2051-H93	SNUB MECH	ISI-GBB-205-1-H	RHR	270420	08/13/86	Y	VT-4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SNUB
ITEM NUMBER F-VT34
01/09/87

CID / EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
GBB2062-H56 VT-3	SNUB MECH	ISI-GBB-206-2-H	RHR	270100	08/07/86	Y
GBB2062-H56 VT-4	SNUB MECH	ISI-GBB-206-2-H	RHR	270100	08/07/86	Y
GBB2092-H58 VT-3	SNUB MECH	ISI-GBB-209-2-H	RHR	270440	08/13/86	Y
GBB2092-H58 VT-4	SNUB MECH	ISI-GBB-209-2-H	RHR	270440	08/13/86	Y
HRC2121-H15 VT-3	SNUB MECH	ISI-HRC-212-1-H	RHRSW	340120	08/07/86	Y
HRC2121-H15 VT-4	SNUB MECH	ISI-HRC-212-1-H	RHRSW	340120	08/07/86	Y
DCA2421-H3 VT-3	SNUB MECH	ISI-DCA-242-1-H	RR	180360	09/05/86	Y
DCA2421-H3 VT-4	SNUB MECH	ISI-DCA-242-1-H	RR	180360	09/05/86	Y
RHS200-H26 VT-3	SNUB MECH	ISI-VRR-B31-4-H	RR	180400	09/10/86	Y
RHS200-H26 VT-4	SNUB MECH	ISI-VRR-B31-4-H	RR	180400	09/10/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SNUB
ITEM NUMBER F-VT34
01/09/87

CID / EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
RWS200-H28 VT-3	SNUB MECH	ISI-VRR-B31-4-H	RR	180380	09/01/86	Y
RWS200-H28 VT-4	SNUB MECH	ISI-VRR-B31-4-H	RR	180380	09/01/86	Y
RWS200-H38 VT-3	SNUB MECH	ISI-VRR-B31-4-H	RR	180340	09/05/86	Y
RWS200-H38 VT-4	SNUB MECH	ISI-VRR-B31-4-H	RR	180340	09/05/86	Y
DCA2022-H4 VT-3	SNUB MECH	ISI-DCA-202-2-H	RWCU	190120	09/10/86	Y
DCA2022-H4 VT-4	SNUB MECH	ISI-DCA-202-2-H	RWCU	190120	09/10/86	Y
SPDCA2061-H2 VT-3	SNUB MECH	ISI-DCA-206-1-H	SBLC	425600	09/10/86	Y
SPDCA2061-H2 VT-4	SNUB MECH	ISI-DCA-206-1-H	SBLC	425800	09/10/86	Y

TALLY ITEM F-VT34 58
TALLY CDECAT SNUB 58

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SPRNG
ITEM NUMBER F-SPR
01/09/87

CID / EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
DCA2071-H1 VT-3	VAR SUP	ISI-DCA-207-1-H	CS	100100	09/10/86	Y
DCA2071-H1 VT-4	VAR SUP	ISI-DCA-207-1-H	CS	100100	09/10/86	Y
GBB2011-H70 VT-3	VAR SUP	ISI-GBB-201-1-H	CS	200100	08/18/86	Y
GBB2011-H70 VT-4	VAR SUP	ISI-GBB-201-1-H	CS	200100	08/18/86	Y
HRC2031-H2 VT-3	VAR SUP	ISI-HRC-203-1-H	ESW	300100	08/18/86	Y
HRC2031-H2 VT-4	VAR SUP	ISI-HRC-203-1-H	ESW	300100	08/18/86	Y
HCC2033-H63 VT-3	VAR SUP	ISI-HCC-203-3-H	FPC	200460	08/07/86	Y
HCC2033-H63 VT-4	VAR SUP	ISI-HCC-203-3-H	FPC	200460	08/07/86	Y
DLA2011-H2 VT-3	VAR SUP	ISI-DLA-201-1-H	FW	110140	09/24/86	Y
DLA2011-H2 VT-4	VAR SUP	ISI-DLA-201-1-H	FW	110140	09/24/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SPRNG
ITEM NUMBER F-SPR
01/09/87

CID / EXAM TYPE	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
DLA2041-H4 VT-3	VAR SUP	ISI-DLA-204-1-H	FH	110200	09/06/86	Y
DLA2041-H4 VT-4	VAR SUP	ISI-DLA-204-1-H	FH	110200	09/06/86	Y
DBA2021-H3 VT-3	VAR SUP	ISI-DBA-202-1-H	HPCI	120160	09/06/86	Y
DBA2021-H3 VT-4	VAR SUP	ISI-DBA-202-1-H	HPCI	120160	09/06/86	Y
DBB2011-H5 VT-3	VAR SUP	ISI-DBB-201-1-H	MS	230140	09/06/86	Y
DBB2011-H5 VT-4	VAR SUP	ISI-DBB-201-1-H	MS	230140	09/06/86	Y
DBB2051-H3 VT-3	VAR SUP	ISI-DBB-205-1-H	MS	230180	08/21/86	Y
DBB2051-H3 VT-4	VAR SUP	ISI-DBB-205-1-H	MS	230180	08/21/86	Y
GBC20110-H36 VT-3	VAR SUP	ISI-GBC-201-10-H	MS	320400	09/06/86	Y
GBC20110-H36 VT-4	VAR SUP	ISI-GBC-201-10-H	MS	320400	09/06/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SPRING
ITEM NUMBER F-SPR
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
GBC20111-H69	VAR SUP	ISI-GBC-201-11-H	MS	320460	09/06/86	Y	VT-3
GBC20111-H69	VAR SUP	ISI-GBC-201-11-H	MS	320460	09/06/86	Y	VT-4
GBC20112-H320	VAR SUP	ISI-GBC-201-12-H	MS	320420	09/06/86	Y	VT-3
GBC20112-H320	VAR SUP	ISI-GBC-201-12-H	MS	320420	09/06/86	Y	VT-4
GBC2017-H335	VAR SUP	ISI-GBC-201-7-H	MS	320820	09/06/86	Y	VT-3
GBC2017-H335	VAR SUP	ISI-GBC-201-7-H	MS	320820	09/06/86	Y	VT-4
MST222-H5	VAR SUP	ISI-VNB-B21-4-H	MS	320600	09/06/86	Y	VT-3
MST222-H5	VAR SUP	ISI-VNB-B21-4-H	MS	320600	09/06/86	Y	VT-4
MST222-H7	VAR SUP	ISI-VNB-B21-3-H	MS	320960	09/06/86	Y	VT-3
MST222-H7	VAR SUP	ISI-VNB-B21-3-H	MS	320960	09/06/86	Y	VT-4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SPRING
ITEM NUMBER F-SPR
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT	EXAM TYPE
EBB2031-H1	VAR SUP	ISI-EBB-203-1-H	RCIC	260120	08/18/86	Y	VT-3
EBB2031-H1	VAR SUP	ISI-EBB-203-1-H	RCIC	260120	08/18/86	Y	VT-4
HBB2012-H1	VAR SUP	ISI-HBB-201-2-H	RCIC	260140	08/18/86	Y	VT-3
HBB2012-H1	VAR SUP	ISI-HBB-201-2-H	RCIC	260140	08/18/86	Y	VT-4
DBB2071-H4	VAR SUP	ISI-DBB-207-1-H	RHR	270540	08/13/86	Y	VT-3
DBB2071-H4	VAR SUP	ISI-DBB-207-1-H	RHR	270540	08/13/86	Y	VT-4
DCA2101-H5	VAR SUP	ISI-DCA-210-1-H	RHR	271240	09/06/86	Y	VT-3
DCA2101-H5	VAR SUP	ISI-DCA-210-1-H	RHR	271240	09/06/86	Y	VT-4
DCA2102-H1	VAR SUP	ISI-DCA-210-2-H	RHR	271260	09/25/86	Y	VT-3
DCA2102-H1	VAR SUP	ISI-DCA-210-2-H	RHR	271260	09/25/86	Y	VT-4

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SPRNG
ITEM NUMBER F-SPR
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
GBB2051-H90 VT-3	VAR SUP	ISI-GBB-205-1-H	RHR	270360	08/13/86	Y
GBB2051-H90 VT-4	VAR SUP	ISI-GBB-205-1-H	RHR	270360	08/13/86	Y
GBB2091-H15 VT-3	VAR SUP	ISI-GBB-209-1-H	RHR	270220	08/13/86	Y
GBB2091-H15 VT-4	VAR SUP	ISI-GBB-209-1-H	RHR	270220	08/13/86	Y
GBB2092-H5 VT-3	VAR SUP	ISI-GBB-209-2-H	RHR	270520	08/13/86	Y
GBB2092-H5 VT-4	VAR SUP	ISI-GBB-209-2-H	RHR	270520	08/13/86	Y
HBB2112-H07 VT-3	VAR SUP	ISI-HBB-211-2-H	RHR	270320	08/14/86	Y
HBB2112-H07 VT-4	VAR SUP	ISI-HBB-211-2-H	RHR	270320	08/14/86	Y
HRC2123-H1 VT-3	VAR SUP	ISI-HRC-212-3-H	RHRSW	340020	08/13/86	Y
HRC2123-H1 VT-4	VAR SUP	ISI-HRC-212-3-H	RHRSW	340020	08/13/86	Y

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY SPRNG
ITEM NUMBER F-SPR
01/09/87

CID	DESC	ISI ISO	SYSTEM	EXAM NO	ANII SIGN-OFF	PROGRAM CREDIT
EXAM TYPE						
RHS200-HA2 VT-3	VAR SUP	ISI-VRR-B31-3-H	RR	180220	08/22/86	Y
RHS200-HA2 VT-4	VAR SUP	ISI-VRR-B31-3-H	RR	180220	08/22/86	Y
RHS200-HA4 VT-3	VAR SUP	ISI-VRR-B31-3-H	RR	180260	08/22/86	Y
RHS200-HA4 VT-4	VAR SUP	ISI-VRR-B31-3-H	RR	180260	08/22/86	Y
DBA2012-H7 VT-3	VAR SUP	ISI-DBA-201-2-H	RHCU	190240	09/10/86	Y
DBA2012-H7 VT-4	VAR SUP	ISI-DBA-201-2-H	RHCU	190240	09/10/86	Y
DCA2031-H3 VT-3	VAR SUP	ISI-DCA-203-1-H	RHCU	190280	09/11/86	Y
DCA2031-H3 VT-4	VAR SUP	ISI-DCA-203-1-H	RHCU	190280	09/11/86	Y

TALLY ITEM F-SPR 58
TALLY CDECAT SPRNG 58

APPENDIX B

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED
AUG1	AUG1	X-EOI	170	30	30
AUG2	AUG2	X-CATB	58	11	10
		X-CATC	20	4	4
AUG3	AUG3	X-AUG3A	17	0	0
		X-AUG3B	6	0	0
		X-AUG3C	12	0	0
B-A	B1.11	X-EOI	10	0	0
	B1.12	X-EOI	13	0	0
	B1.21	X-EOI	1	0	0
		X-ID	1	0	0
	B1.22	X-EOI	8	0	0
		X-ID	6	0	0
	B1.30	Z	1	0	0
	B1.40	Z	2	0	0
B-D	B3.100	Z	30	0	0
	B3.90	Z	30	0	0
B-E	B4.11	X-ID	1	0	0
	B4.12	X-ID	46	8	8
	B4.13	X-ID	15	3	3
B-F	B5.10	Z	34	0	0
	B5.130	X-ID	16	4	4
B-G-1	B6.10	X-EOI	76	0	0

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED
B-G-1	B6.180	X-EOI	16	0	0
	B6.190	X-D	32	0	0
	B6.20	X-EOI	76	0	0
	B6.200	X-D	32	0	0
	B6.30	X-EOI	152	0	0
	B6.40	X-D	76	0	0
	B6.50	X-D	76	0	0
B-G-2	B7.50	X-ID	25	8	4
	B7.70	X-ID	52	8	8
	B7.80	X-D	185	24	24
B-H	B8.10	X-ID	9	0	0
B-J	B9.11	X-ID	288	56	56
	B9.12	X-ID	96	27	12
	B9.21	X-ID	4	1	1
	B9.31	X-ID	18	4	4
	B9.40	X-ID	15	3	3
B-K-1	B10.10	X-ID	92	16	12
B-L-2	B12.20	X-D	1	0	0
B-M-2	B12.50	X-D	26	4	3
B-N-1	B13.10	X-RO*	191	178	178
B-N-2	B13.20	X-EOI	23	4	4
	B13.21	X-EOI	48	8	4

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED
B-N-2	B13.22	X-D	370	0	0
		X-EOI	20	0	0
B-O	B14.10	X-EOI	8	0	0
C-A	C1.10	X-ID	1	0	0
	C1.20	X-ID	1	0	0
C-B	C2.21	X-ID	4	0	0
	C2.22	X-ID	2	0	0
C-C	C3.10	X-ID	8	0	0
	C3.20	X-ID	344	59	59
C-F	C5.11	X-ID	63	12	11
	C5.21	X-ID	125	22	22
	C5.31	X-ID	7	1	1
C-F*	C5.11	X-ID	13	2	2
	C5.21	X-ID	22	4	4
C-G	C6.10	X-ID	33	12	12
D-B	D2.20	X-ID	19	3	3
	D2.30	X-ID	28	5	5
	D2.40	X-ID	34	6	6
D-C	D3.20	X-ID	6	1	1
	D3.30	X-ID	1	0	0
	D3.40	X-ID	2	0	0
F-PMP	F-CSP	X-ID	1	1	1

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED
F-PMP	F-HIP	X-ID	2	0	0
	F-RCP	X-ID	16	4	4
	F-RHP	X-ID	1	0	0
	F-RIP	X-ID	1	0	0
	F-RSP	X-ID	1	0	0
F-TRB	F-HIT	X-ID	1	0	0
	F-RIT	X-ID	1	0	0
F-VSL	F-RHX	X-ID	2	0	0
	F-RPV	X-ID	9	0	0
	F-SSTK	X-ID	2	0	0
NCHOR	F-ANCH	X-1P	26	26	13
		X-2P	26	0	0
		X-3P	26	0	0
RIGID	F-RIGD	X-1P	59	59	30
		X-2P	59	0	0
		X-3P	59	0	0
SNUB	F-VT34	X-1P	120	120	58
		X-2P	118	0	0
		X-3P	120	0	0
SPRNG	F-SPR	X-1P	116	116	58
		X-2P	116	0	0
		X-3P	116	0	0

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED	PERCENT 1ST RFO OVER 1ST PER	PERCENT 1ST RFO OVER 1ST INT	PERCENT 1ST PER OVER 1ST INT
AUG1	AUG1	X-EOI	170	30	30	100.00	17.65	17.65
AUG2	AUG2	X-CATB	58	11	10	90.91	17.24	17.24
		X-CATC	20	4	4	100.00	20.00	20.00
AUG3	AUG3	X-AUG3A	17	0	0	.00	.00	.00
		X-AUG3B	6	0	0	.00	.00	.00
		X-AUG3C	12	0	0	.00	.00	.00
B-A	B1.11	X-EOI	10	0	0	.00	.00	.00
	B1.12	X-EOI	13	0	0	.00	.00	.00
	B1.21	X-EOI	1	0	0	.00	.00	.00
		X-ID	1	0	0	.00	.00	.00
	B1.22	X-EOI	8	0	0	.00	.00	.00
		X-ID	6	0	0	.00	.00	.00
	B1.30	Z	1	0	0	.00	.00	.00
	B1.40	Z	2	0	0	.00	.00	.00
B-D	B3.100	Z	30	0	0	.00	.00	.00
	B3.90	Z	30	0	0	.00	.00	.00
B-E	B4.11	X-ID	1	0	0	.00	.00	.00
	B4.12	X-ID	46	8	8	100.00	17.39	17.39
	B4.13	X-ID	15	3	3	100.00	20.00	20.00
B-F	B5.10	Z	34	0	0	.00	.00	.00
	B5.130	X-ID	16	4	4	100.00	25.00	25.00

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED	PERCENT 1ST RFO OVER 1ST PER	PERCENT 1ST RFO OVER 1ST INT	PERCENT 1ST PER OVER 1ST INT
B-G-1	B6.10	X-EOI	76	0	0	.00	.00	.00
	B6.180	X-EOI	16	0	0	.00	.00	.00
	B6.190	X-D	32	0	0	.00	.00	.00
	B6.20	X-EOI	76	0	0	.00	.00	.00
	B6.200	X-D	32	0	0	.00	.00	.00
	B6.30	X-EOI	152	0	0	.00	.00	.00
	B6.40	X-D	76	0	0	.00	.00	.00
	B6.50	X-D	76	0	0	.00	.00	.00
B-G-2	B7.50	X-ID	25	8	4	50.00	16.00	16.00
	B7.70	X-ID	52	8	8	100.00	15.38	15.38
	B7.80	X-D	185	24	24	100.00	12.97	12.97
B-H	B8.10	X-ID	9	0	0	.00	.00	.00
B-J	B9.11	X-ID	288	56	56	100.00	19.44	19.44
	B9.12	X-ID	96	27	12	44.44	12.50	12.50
	B9.21	X-ID	4	1	1	100.00	25.00	25.00
	B9.31	X-ID	18	4	4	100.00	22.22	22.22
	B9.40	X-ID	15	3	3	100.00	20.00	20.00
B-K-1	B10.10	X-ID	92	16	12	75.00	13.04	13.04
B-L-2	B12.20	X-D	1	0	0	.00	.00	.00
B-M-2	B12.50	X-D	26	4	3	75.00	11.54	11.54
B-N-1	B13.10	X-RO*	191	178	178	100.00	93.19	93.19

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED	PERCENT 1ST RFO OVER 1ST PER	PERCENT 1ST RFO OVER 1ST INT	PERCENT 1ST PER OVER 1ST INT
B-N-2	B13.20	X-EOI	23	4	4	100.00	17.39	17.39
	B13.21	X-EOI	48	8	4	50.00	8.33	8.33
	B13.22	X-D	370	0	0	.00	.00	.00
		X-EOI	20	0	0	.00	.00	.00
B-O	B14.10	X-EOI	8	0	0	.00	.00	.00
C-A	C1.10	X-ID	1	0	0	.00	.00	.00
	C1.20	X-ID	1	0	0	.00	.00	.00
C-B	C2.21	X-ID	4	0	0	.00	.00	.00
	C2.22	X-ID	2	0	0	.00	.00	.00
C-C	C3.10	X-ID	8	0	0	.00	.00	.00
	C3.20	X-ID	344	59	59	100.00	17.15	17.15
C-F	C5.11	X-ID	63	12	11	91.67	17.46	17.46
	C5.21	X-ID	125	22	22	100.00	17.60	17.60
	C5.31	X-ID	7	1	1	100.00	14.29	14.29
C-F*	C5.11	X-ID	13	2	2	100.00	15.38	15.38
	C5.21	X-ID	22	4	4	100.00	18.18	18.18
C-G	C6.10	X-ID	33	12	12	100.00	36.36	36.36
D-B	D2.20	X-ID	19	3	3	100.00	15.79	15.79
	D2.30	X-ID	28	5	5	100.00	17.86	17.86
	D2.40	X-ID	34	6	6	100.00	17.65	17.65
D-C	D3.20	X-ID	6	1	1	100.00	16.67	16.67

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED	PERCENT 1ST RFO OVER 1ST PER	PERCENT 1ST RFO OVER 1ST INT	PERCENT 1ST PER OVER 1ST INT
D-C	D3.30	X-ID	1	0	0	.00	.00	.00
	D3.40	X-ID	2	0	0	.00	.00	.00
F-PMP	F-CSP	X-ID	1	1	1	100.00	100.00	100.00
	F-HIP	X-ID	2	0	0	.00	.00	.00
	F-RCP	X-ID	16	4	4	100.00	25.00	25.00
	F-RHP	X-ID	1	0	0	.00	.00	.00
	F-RIP	X-ID	1	0	0	.00	.00	.00
	F-RSP	X-ID	1	0	0	.00	.00	.00
F-TRB	F-HIT	X-ID	1	0	0	.00	.00	.00
	F-RIT	X-ID	1	0	0	.00	.00	.00
F-VSL	F-RHX	X-ID	2	0	0	.00	.00	.00
	F-RPV	X-ID	9	0	0	.00	.00	.00
	F-SSTK	X-ID	2	0	0	.00	.00	.00
NCHOR	F-ANCH	X-1P	26	26	13	50.00	50.00	50.00
		X-2P	26	0	0	.00	.00	.00
		X-3P	26	0	0	.00	.00	.00
RIGID	F-RIGD	X-1P	59	59	30	50.85	50.85	50.85
		X-2P	59	0	0	.00	.00	.00
		X-3P	59	0	0	.00	.00	.00
SNUB	F-VT34	X-1P	120	120	58	48.33	48.33	48.33
		X-2P	118	0	0	.00	.00	.00

APPENDIX B.1
SECTION XI
CODE COMPLIANCE SUMMARY - UNIT 2 FRO
(SYSTEM PRESSURE TESTS NOT INCLUDED)

CODE CATEGORY	ITEM	EXAM SCHEDULE GUIDELINE	1ST INTERVAL EXAMS	FIRST PERIOD SCHEDULED	FIRST RFO PROGRAM CREDIT RECEIVED	PERCENT 1ST RFO OVER 1ST PER	PERCENT 1ST RFO OVER 1ST INT	PERCENT 1ST PER OVER 1ST INT
SNUB	F-VT34	X-3P	120	0	0	.00	.00	.00
SPRNG	F-SPR	X-1P	116	116	58	50.00	50.00	50.00
		X-2P	116	0	0	.00	.00	.00
		X-3P	116	0	0	.00	.00	.00

APPENDIX C

APPENDIX C

SNUBBER DETAILED LISTING

The following snubbers were tested in the small size group (1/4 and 1/2): All hanger numbers begin with small pipe (sp) with the exception of those noted by *.

	HANGER NO.	SIZE	SERIAL NO.	NOTE
1)	DCA-246-H3007	1/4	24376	1
2)	HBB-201-H2006	1/4	23606	1
3)	DBA-212-H2609	1/4	23618	1
4)	DBA-217-H3004B	1/2	17190	1
5)	DBA-217-H3004A	1/2	17189	1
6)	DCA-207-H5008	1/2	17200	1
7)	DBD-214-H9002	1/4	06316	1
8)	HBC-220-H9001	1/2	14436	1
9)	DBB-215-H5005	1/2	14467	1,2
10)	DBA-204-H2600	1/2	14447	1
11)	DBA-208-H4	1/4	24385	1
12)	DBA-210-H2	1/2	14463	1
*13)	DBB-214-H4	1/2	14441	1
14)	DCA-201-H5003	1/4	23613	3
15)	HBD-2089-H9018	1/2	02402	4
16)	DBA-205-H3002	1/4	23621	1
17)	DCA-219-H5022	1/4	23630	1
18)	DCA-218-H5014	1/4	24366	1,5
19)	DBA-202-H5000	1/2	14444	1
20)	HBD-2089-H9015	1/2	17187	
21)	DCA-218-H5026	1/4	24365	
22)	HBD-6043-H9001	1/4	16420	
23)	DCB-211-H5008	1/4	24392	
24)	DCA-219-H5014	1/4	23016	
25)	HCB-205-H55	1/4	16432	
26)	DCB-201-H52	1/2	14427	
27)	DCB-201-H55	1/2	14425	
28)	HCB-205-H59	1/2	14434	
29)	DBB-213-H5003	1/2	14437	
30)	HCB-205-H57	1/4	22887	
31)	DCB-201-H51	1/2	14426	
32)	DCB-201-H54	1/2	17221	
33)	HCB-205-H53	1/4	28735	
34)	DCB-201-H53	1/2	14423	
35)	DCA-230-H3020	1/4	24391	
36)	DCA-230-H3032	1/4	23619	
37)	DCA-229-H3004	1/4	21095	
38)	DCA-229-H3005	1/4	23627	
39)	DCA-229-H3006	1/4	23628	6
40)	DCA-229-H3007	1/4	23629	
41)	DCA-230-H3012	1/4	23622	
42)	DCA-229-H3002	1/4	14357	
43)	DCA-229-H3003	1/4	5158	
44)	DCA-230-H3003	1/4	23625	
45)	DCA-230-H3006	1/4	23623	

	HANGER NO.	SIZE	SERIAL NO.	NOTE
46)	DCA-230-H3010	1/4	23626	
47)	DCA-230-H3013	1/4	24388	
48)	DCA-230-H3022	1/4	24390	7
49)	DCA-230-H3024	1/4	24389	
- 50)	DCB-208-H5006	1/4	6314	4
51)	DCB-208-H5007	1/4	24369	4
52)	DBA-205-H3001	1/4	23620	
53)	HBD-2089-H9009	1/4	23633	
54)	HBD-6043-H9009	1/4	24370	
* 55)	GBB-214-H52	1/2	14418	8
* 56)	GBB-214-H53	1/2	14413	9
57)	DCA-220-H5020	1/4	24386	
58)	DCA-220-H5021	1/2	17186	
59)	DCA-221-H5021	1/4	16443	
60)	DCA-221-H5022	1/2	17199	
61)	DCA-226-H5049A	1/4	13085	
62)	DCA-226-H5049B	1/4	28740	
63)	DCA-206-H2	1/2	2371	
64)	DCA-245-H2603	1/4	16422	
65)	DCA-245-H2606	1/4	4632	
66)	DCA-247-H3001	1/2	14454	
67)	DBA-212-H2606	1/2	14445	
68)	DBA-212-H2642	1/2	14450	
69)	DCA-233-H3003A	1/4	22980	
70)	DCA-233-H3003B	1/4	22920	10
71)	DCA-233-H3004	1/4	16401	
72)	DCA-233-H3005	1/4	16369	
73)	DCA-233-H3007A	1/4	6293	
74)	DCA-233-H3007B	1/4	6251	
75)	DCA-233-H3008A	1/4	5134	
76)	DCA-233-H3008B	1/2	13951	
77)	DCA-234-H3002	1/4	6275	
78)	DCA-234-H3014	1/4	21103	
79)	DCA-234-H3001	1/4	13060	
80)	DCA-234-H3015	1/4	23035	
81)	DCA-246-H3008	1/4	24377	
82)	DCA-247-H3003	1/4	24371	
83)	DCA-248-H3004	1/4	23610	
84)	DCA-248-H3001	1/4	23609	
85)	DCA-248-H3003	1/2	17193	
86)	DCA-249-H3001	1/2	17194	
87)	DCA-249-H3002	1/2	17195	
88)	DCA-249-H3004	1/2	17196	
89)	DCA-246-H3006	1/4	28730	
90)	DCA-237-H5015	1/4	24394	11
91)	DCA-227-H5085	1/2	14464	
92)	DCA-227-H5083	1/2	17188	
93)	DCA-228-H5082	1/2	17236	
94)	DCA-228-H5087	1/2	14421	
95)	DCA-227-H5090	1/4	23615	
96)	DCA-227-H5091	1/4	23616	
97)	DCA-228-H5070	1/2	14419	

	HANGER NO.	SIZE	SERIAL NO.	NOTE
98.	DCA-228-H5071	1/2	14420	
99.	DCA-232-H9001	1/4	24368	4
100.	DCA-207-H5003	1/2	5608	
101.	DBA-202-H5001	1/2	14460	
102.	DBA-204-H2000	1/2	12958	
103.	DBA-206-H2	1/2	14401	
104.	DBA-208-H1	1/2	14466	
105.	DBA-208-H3	1/4	24384	
106.	DBA-208-H6	1/2	14409	
107.	DBA-208-H7	1/4	24375	
108.	DBA-209-H2	1/4	24372	
109.	DBA-210-H1	1/4	24381	
110.	DBA-211-H1	1/4	24379	
111.	DBA-211-H3	1/4	24380	
112.	DBA-214-H3000	1/2	14455	
113.	DBA-214-H3001	1/2	14456	
114.	DBA-214-H3004	1/2	14457	
115.	DBA-214-H3006A	1/4	24373	
116.	DBA-214-H3006B	1/4	24378	
117.	DBA-215-H3002	1/4	28729	
118.	DBA-215-H3004	1/2	17197	
119.	DBA-216-H3002	1/2	14452	
120.	DBA-219-H5003	1/2	4788	
121.	DBB-208-H13	1/4	21067	12
122.	DBB-208-H17	1/2	14468	
123.	DBB-208-H82	1/4	9749	
124.	DBB-208-H83	1/2	17198	
125.	DBB-208-H86	1/4	24387	
126.	DBB-208-H87	1/2	14462	
127.	DBB-208-H89	1/2	14469	
* 128.	DBB-209-H18	1/2	14417	
129.	DBB-215-H5007	1/2	14449	
130.	DBB-223-H3004	1/4	23614	
131.	DBB-224-H3004	1/2	17191	
132.	DBB-225-H3003	1/2	17184	
133.	DBB-225-H3004	1/2	17185	
134.	DBB-226-H3001	1/2	17192	
135.	DBB-226-H3003	1/2	14471	
136.	DBB-226-H3005	1/4	23608	
* 137.	DBB-222-H55A	1/2	14408	
* 138.	DBB-222-H55B	1/2	14406	
139.	DBD-214-H9004	1/2	14432	
140.	DBD-214-H9005	1/2	14433	
141	DBD-214-H9006	1/2	12972	
142.	GBB-234-H3	1/4	24382	
143.	HBB-208-H5004	1/2	14405	
* 144.	HBB-208-H54	1/2	14440	
*145.	HBB-213-H4	1/2	14453	
*146.	HBB-225-H2	1/2	14438	
* 147.	HBB-226-H2	1/2	14443	
148.	HBB-208-H5008	1/2	14407	
149.	HBB-251-H5005	1/4	14423	

	HANGER NO.	SIZE	SERIAL NO.	NOTE
150.	HBC-220-H9006	1/4	24363	
151.	HBC-239-H5012	1/4	24395	13
* 152.	HBD-2039-H11	1/2	14411	
* 153.	HBD-2039-H12	1/2	14410	
* 154.	HBD-2040-H8	1/2	14414	
155.	HBD-2049-H9012	1/2	14431	
* 156.	HBD-288-H4A	1/2	14416	
* 157.	HBD-288-H4B	1/2	14422	
* 158.	HBD-289-H3	1/4	4190	
* 159.	HBD-289-H6	1/4	6258	
* 160.	HBD-289-H7	1/4	28749	
* 161.	HBD-289-H2	1/2	13475	
162.	HCB-227-H5021	1/2	14461	
163.	HCC-233-H5027	1/2	14470	
164.	HRC-226-H5013	1/4	24393	
165.	JBD-288-H2600	1/2	14451	
* 166.	EBB-202-H3	1/4	9740	
167.	DCA-206-H4	1/2	3867	
* 168.	DBB-215-H51	1/2	13432	
* 169.	GBB-202-H52	1/2	14439	
170.	DCA-207-H5006	1/2	5593	

NOTE 1: Snubbers included in Initial Sample.

NOTE 2: Snubber failed and replaced by S.N. 17230.

NOTE 3: Snubber was a Special Case which failed and was replaced by S.M. 29005.

NOTE 4: These snubbers were Special Case which passed.

NOTE 5: Snubber failed and replaced by S.N. 28928.

NOTE 6: Snubber failed and replaced by S.N. 28770.

NOTE 7: Snubber failed and replaced by S.N. 28913.

NOTE 8: Snubber failed and replaced by S.N. 17245.

NOTE 9: Snubber failed and replaced by S.N. 17225.

NOTE 10: Snubber failed and replaced by S.N. 29006.

NOTE 11: Snubber was a Special Case which failed and was replaced by S.N. 28772.

NOTE 12: Snubber failed and replaced by S.N. 28796.

NOTE 13: Snubber failed and replaced by S.N. 28775.

The following snubbers were tested in the intermediate size group (1, 3, and 10):

	HANGER NO.	SIZE	SERIAL NO.	NOTE
1)	DBB-214-H10A	1	20417	1
2)	DBB-214-H10B	1	20416	1
3)	DBB-209-H15	1	20789	1
4)	DBD-205-H25	3	19535	
5)	DBB-221-H27	3	19509	
6)	DBB-209-H16	3	19776	
7)	GBB-201-H33A	10	13678	
8)	DBB-220-H15	10	14425	
9)	GBB-201-H33B	10	13662	3
10)	EBD-213-H2B	3	25294	1
11)	EBD-213-H2A	3	00115	
12)	DBD-201-H71	10	02608	3
13)	DBB-220-H17	10	00405	
14)	DBB-207-H51	10	04603	
15) SP	DBA-212-H2631	1	20854	1
16)	HBD-288-H8	1	20802	1
17) SP	DBA-212-H2638	1	20857	1
18)	DBB-214-H3	3	19594	
19)	DBA-208-H17	3	19494	
20)	DBA-208-H3	3	19518	
21)	DCA-211-H23	10	14172	
22)	DCA-211-H29	10	14175	
23)	DCA-202-H26	10	14764	
24)	DCA-241-H4	10	04602	
25)	DBA-201-H12	1	20402	1
26)	DCA-202-H8	3	19456	
27)	DCA-202-H24	3	19467	
28)	DCA-211-H18	3	19543	
29) SP	DCA-202-H20	1	21555	1
30) SP	DCA-202-H2602	1	21549	2
31)	GBC-201-H137A	10	03170	
32)	GBC-201-H137B	10	02605	
33) SP	GBB-222-H5008	1	20822	1
34)	GBB-208-H3	1	17227	1
35)	DBB-215-H7	3	06839	
36)	DBA-205-H6A	1	23395	1
37)	DBA-205-H6B	1	23390	1

NOTE 1: Snubbers which were tested, had Capstan Springs replaced, and retested.

NOTE 2: Snubber passed testing but was replaced with S.N. 18348 due to loose telescoping tube.

NOTE 3: Snubbers passed testing, were disassembled, cleaned, retested, and reinstalled.

The following snubbers were tested in the large size group (35 and 100):

	HANGER NO.	SIZE	SERIAL NO.	NOTE
1)	DBB-215-H11	35	9477	1
2)	HBB-207-H56	35	8650	1
3)	DBD-201-H54A	35	10712	1
4)	DBD-201-H54B	35	10711	1
5)	HBB-201-H3	35	10706	1
6)	DBB-201-H4A	35	2759	1,2
7)	DBB-201-H4B	35	2675	1
8)	DBB-201-H24	100	1631	1
9)	DBB-207-H6	35	3474	1
10)	DCA-207-H15	35	10543	1
11)	DCA-207-H7	35	7402	1
12)	DLA-204-H5	35	3216	1
13)	DLA-202-H9A	35	7530	1
14)	DLA-202-H9B	35	1179	1
15)	DLA-201-H1	100	1575	1
16)	DCA-210-H9	35	2752	1
17)	DCA-210-H14	35	807	1,3
18)	DBA-202-H13	35	3238	1
19)	GBC-201-H134	35	3223	1
20)	GBC-201-H241	35	3768	1
21)	GBC-201-H108	35	2654	1
22)	RWS-200-H46	100	545	1,4
23)	GBB-206-H19	100	528	1
24)	GBB-209-H56	35	9528	1
25)	RWS-200-H25A	35	3772	1
26)	RWS-200-H25B	35	3771	1
27)	DCA-210-H33	35	3672	1
28)	GBB-204-H3	35	1340	1
29)	HBB-210-H52	35	9514	1
30)	DBA-202-H8	35	3657	1
31)	RWS-200-H15	35	7531	1
32)	GBB-205-H95	35	9467	1
33)	GBB-204-H4	35	8625	1
34)	GBC-201-H173A	35	3648	1
35)	GBC-201-H173B	35	3653	1
36)	MST-222-H48	100	1565	1
37)	RWS-200-H11	35	7382	1,5
38)	GBB-209-H58A	35	9529	6
39)	GBB-209-H58B	35	9530	6
40)	GBB-207-H63	35	10666	6
41)	DCA-209-H7	35	801	6
42)	DCA-209-H6	35	811	6
43)	GBB-204-H95	35	6958	6
44)	GBB-205-H89A	35	10714	6
45)	GBB-205-H89B	35	9487	6

	HANGER NO.	SIZE	SERIAL NO.	NOTE
46)	GBB-204-H93	35	6966	6
47)	GBB-204-H6	35	6968	6
48)	GBB-206-H61	35	9445	6
49)	HBB-211-H12	35	9453	6
50)	HBB-210-H43	35	9479	6
51)	GBB-204-H96	35	9525	6
52)	HBB-211-H30A	35	9474	6
53)	HBB-211-H30B	35	9472	6
54)	HBB-210-H53A	35	10538	6
55)	HBB-210-H53B	35	10544	6
56)	GBB-204-H103	35	8642	7
57)	GBB-205-H96	35	8621	7
58)	HBB-210-H21	100	1573	7
59)	HBB-210-H51	35	9480	7
60)	HBB-210-H5A	35	1275	7
61)	HBB-210-H5B	35	2620	7
62)	HBB-210-H3	35	10707	7
63)	HBB-210-H2	35	9484	7
64)	HBB-211-H4	35	1276	7
65)	HBB-211-H5	35	10708	7
66)	GBB-205-H92	35	9446	7
67)	GBB-205-H93A	35	9457	7
68)	GBB-205-H93B	35	9456	7
69)	GBB-205-H94	35	10890	7
70)	GBB-206-H1	35	3681	7
71)	GBB-215-H51	35	9443	7
72)	GBB-209-H60A	35	9526	7
73)	GBB-209-H60B	35	9527	7
74)	GBB-204-H101	35	9447	8
75)	GBB-209-H57	35	9522	8
76)	GBB-204-H16	35	10564	8
77)	HBB-210-H49	35	9482	8
78)	GBB-206-H51	35	9444	8
79)	DBB-207-H52A	35	9454	8
80)	DBB-207-H52B	35	9455	8
81)	GBB-204-H10	35	9532	8
82)	HBB-210-H45	35	10563	8
83)	RWS-200-H5	35	3490	8
84)	RWS-200-H6	35	3693	8
85)	RWS-200-H21	35	7526	8
86)	RWS-200-H22	35	7383	8
87)	RWS-200-H29	35	3708	8
88)	RWS-200-H33	35	7386	8,10
89)	RWS-200-H34	35	7387	8
90)	RWS-200-H30	35	3719	8
91)	RWS-200-H19	35	6024	8
92)	RWS-200-H20	35	7533	8
93)	JRD-228-H53	35	10723	9
94)	RWS-200-H28A	35	3741	9
95)	RWS-200-H28B	35	3742	9

	HANGER NO.	SIZE	SERIAL NO.	NOTE
96)	RWS-200-H14	35	3778	9
97)	RWS-200-H4	35	3664	9
98)	RWS-200-H3	35	3659	9
99)	RWS-200-H13	35	3273	9
100)	DCA-208-H4	35	2800	9
101)	DCA-208-H6	35	3253	9
102)	DCA-208-H7	35	7400	9
103)	DCA-208-H8	100	1560	9
104)	DCA-208-H9	100	570	9
105)	DCA-208-H10	35	3262	9
106)	DCA-208-H11	35	3181	9
107)	DCA-208-H12	35	1369	9
108)	DCA-211-H3	35	9493	9
109)	DCA-211-H34	35	7395	9
110)	DCA-211-H35	35	1519	9
111)	DCA-210-H11	35	11809	11
*				12

NOTE 1: Snubbers included in Initial Sample.

NOTE 2: Snubber failed (#1) and replaced by S.N. 12625.

NOTE 3: Snubber passed testing but was replaced by S.N. 12626 due to marginal behavior.

NOTE 4: Snubber failed (#2) replacement by S.N. 1637 after spares S.N. 1625 and S.N. 575 failed.

NOTE 5: Snubber failed (#3) and replaced by S.N. 12624.

NOTE 6: Additional testing caused by first failure.

NOTE 7: Additional testing caused by second failure.

NOTE 8: Additional testing caused by third failure.

NOTE 9: Additional testing caused by fourth failure.

NOTE 10: Snubber failed (#4) and replaced by S.N. 12629.

NOTE 11: Snubber tested (passed) to resolve NCR85-0130.

NOTE 12: DBA-205-H16 compensating strut, PSB-.03, S/N 00136 tested and passed.

APPENDIX D.1

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

Page 1 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-13-86

2 North 9th 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) — W/A V6444 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System RHR Service Water 2-16A-III

5. (a) Applicable Construction Code Asme III 1971 Edition, W73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pipe Flange	Bechtel	N/A	N/A	HRC-212 -1-5	1983	Replaced	Y
Pipe Flange	GLYON ALLOYS	HT # 5183	N/A	HRC-212 -1-5	1983	Replacement	Y

7. Description of Work Remove Flange BY mechanical means, Reweld and HT

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ N/A 11-14-86

Other ☐ Pressure ~~78~~ 200 psi N/A 11-14-86 Test Temp. ~~69~~ 74 °F N/A 11-14-86

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 NONE

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

Signed Thomas M Cassimatis Jr. Date November 14, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 6, 1986 to SEP. 26, 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 Commissions NB7980 PA2204 NIBS 16
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-13-86
2 North 9th 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) — NA V64447 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR Service Water 2-16A - III
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, NA 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)
Pipe Flange	Bechtel	N/A	N/A	HRC-212-2-5	1983	Replaced	Y
Pipe Flange	Guyon Alloys	HT # 5183	N/A	HRC-212-7-5	1983	Replacement	Y

7. Description of Work Remove Flange by mechanical means, Reweld and MT
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ N/A
Other ☐ Pressure ~~52~~ 200 psi Test Temp. ~~62~~ 71 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 November 14, 1986
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 6, 1986 to SEP. 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. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 1986

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V6461C (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR Service Water 2-16A-III
5. (a) Applicable Construction Code ASME III 19 74 Edition, S 75 Addenda, N242-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W81 — DPA 10-24-86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Relief Valve	Crosby	N60596-00-0004	NA	PSV-21213B	1979	Replaced	Y
Relief Valve	Crosby	N60596-00-0005	NA	PSV-21213B	1984	Replacement	Y

7. Description of Work Replace valve because of excessive leakage
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks Form NV-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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period Oct. 6, 1986 to _____, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. 3 19 86

(12/82)

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION
As Required by the Provisions of The National Board Inspection Code

1. Work done by Pennsylvania Power and Light Two North Ninth Street Allentown, Pa. 18101 (Name and address of repair or alteration organization) — 4273-LH (Serial No.)

2. Owner Pennsylvania Power & Light Co., Two North Ninth St., Allentown, Pa. 18101 (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 Instrument Air Dryer (Boiler, Pressure Vessel) Name of Manufacturer Kemp Mfg. Co.

5. Identifying Nos. 4273-LH (Mfgr Serial No.) 4273 (National Board No.) — 480721 (Jurisdiction) — 2F-116A (Other) — 1976 (Year Built)

6. Description of Work: Replaced heater well (required circumferential weld on vessel) (Use back, separate sheet, or sketch if necessary)

PP&L Work Authorization U33050. Sys. 218A Cl. D

Hydrostatic Pressure Test, if Applied 188 psi

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report:

(Name of part, item number, mfgr's name and identifying stamp)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all (design) Section VIII material, construction, and workmanship on this Repair (repair alteration) conform to The National Board Inspection Code.

Date 1-21-85 Signed Pennsylvania Power & Light Co. (Repair Alteration Organization) by R. Reiser (Authorized Representative)

Our Certificate of Authorization No. N/A to use the N/A Symbol expires _____ 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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the work described in this Data Report on DEC. 13 19 83 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 JAN. 22, 1985 William R. Rogers III (Inspector) Commissions PA 2204 (Nat'l Board, State, Province and No.) FACTORY MUTUAL SYSTEM

This form may be obtained from the National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Col's., O. 43229. NB-66 Rev. 0

FORM R-1. REPORT OF WELDED X REPAIR OR ☐ ALTERATION
As Required by the Provisions of The National Board Inspection Code

1. Work done by PENNSYLVANIA POWER AND LIGHT CO., TWO NORTH NINTH ST. ALLENTOWN, PA 18101 (Name and address of repair or alteration organization) (Serial No.)
2. Owner PENNSYLVANIA POWER AND LIGHT CO., TWO NORTH NINTH ST, ALLENTOWN, PA. 18101 (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 AIR DRYER VESSEL (Boiler, Pressure Vessel) Name of Manufacturer KEMP MANUFACTURING CO.
5. Identifying Nos. 4274-LH (Mfgr. Serial No.) 4274 (National Board No.) 480722 (Jurisdiction) 2F116B (Other) 1976 (Year Built)
6. Description of Work: REPLACE BURNED OUT heater element AND damaged heater element tube. IN AIR DRYER VESSEL. Required removal AND cracked OF dryer vessel head NA # V53408 (Use back, separate sheet, or sketch if necessary)

HYDROSTATIC Pressure Test, if Applied 128 psi

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report: NONE

(Name of part, item number, mfgr's name, and identifying stamp)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all (design) ASME VIII material, construction, and workmanship on this Repair (repair alteration) conform to The National Board Inspection Code.

Date 6-16-86 Signed Penna. Power & Light Co. (Repair Alteration Organization) by [signature] (Authorized Representative)

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 PENNA. and employed by ARKWRIGHT BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the work described in this Data Report on JULY 13 19 85 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 operty 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. FACTORY MUTUAL SYSTEM

Date JUNE 30, 1986 William R. Rigney III (Inspector) Commissions NB7990 PA2204 (Nat'l Board, State, Province and No.)

This form may be obtained from the National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Col's., O. 43229. NB-66 Rev 0

FORM R-1, REPORT OF WELDED X REPAIR OR ☐ ALTERATION
As Required by the Provisions of The National Board Inspection Code

Page 9 of 288

1. Work done by Pennsylvania Power & Light Company, Two North 9th St., Allentown, PA 18101 (Name and address of repair or alteration organization) (Serial No)
2. Owner Pennsylvania Power & Light Company, Two North 9th St., Allentown, PA 18101 (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 ASME III Pipe to Valve (Boiler Pressure Vessel) Name of Manufacturer Lonergan
5. Identifying Nos. 510138-2-18-1 (Mfgr Serial No) N/A (National Board No) N/A (Jurisdiction) N/A (Other) 1982 (Year Built)
6. Description of Work: Re-fit and welded inlet and outlet flange for proper alignment of valve PSV-22643. Work performed under PP&L Work Authorization #S-24926. (Use back, separate sheet or sketch if necessary)

SQS22-5A Unit 2 Class 2

Pressure Test, if Applied 150 psi

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report: NONE

(Name of part, item number, mfgr's name and serial no. or stamp)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all (design) material, construction, and workmanship on this repair (repair alteration) conform to The National Board Inspection Code.

Date 9-28-83 Signed Penn Power & Light Co (Repair Alteration Organization) by R Keers (Authorized Representative)

Our Certificate of Authorization No. N/A to use the _____ Symbol expires _____, 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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA. have inspected the work described in this Data Report on AUGUST 5, 19 83 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 OCT. 5, 1983 William R. Rogers III (Inspector) Commissions FACTORY MUTUAL SYSTEM PA 2204 (Nat'l Board, State, Province and No)

This form may be obtained from the National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Col's., O. 43229. No 66

FORM R-1, REPORT OF WELDED X REPAIR OR ☐ ALTERATION
As Required by the Provisions of The National Board Inspection Code

1. Work done by Pennsylvania Power & Light Company, Two North 9th St., Allentown, PA 18101 (Name and address of repair or alteration organization) (Serial No.)
2. Owner Pennsylvania Power & Light Company, Two North 9th St., Allentown, PA 18101 (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 ASME III Pipe to Valve (Boiler Pressure Vessel) Name of Manufacturer Lonergan
5. Identifying Nos. 510138-2-18-2 (Mfgr Serial No.) N/A (National Board No.) N/A (Jurisdiction) N/A (Other) 1982 (Year Built)
6. Description of Work: Re-fit and welded inlet and outlet flange for proper alignment (Use back, separate sheet, or sketch if necessary)

of valve PSV-22648. Work performed under PP&L Work Authorization #S-24926.

Sys. 225A Unit 2 Class 2

Pressure Test, if Applied 150 psi

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report: NONE

(Name of part, serial number, and stamping, if applicable, or "None")

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all (design) material, construction, and workmanship on this repair (repair, alteration) conform to The National Board Inspection Code.

Date 9-28-83 Signed Penn Power & Light Co (Repair, Alteration Organization) by R. Keers (Authorized Representative)

Our Certificate of Authorization No. N/A to use the _____ Symbol expires _____, 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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA. have inspected the work described in this Data Report on AUGUST 10, 19 82 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 OCT. 7, 1983 William R. Rogers III (Inspector) Commissions FACTORY MUTUAL SYSTEM PA 2204 (Nat'l Board, State, Province and No.)

This form may be obtained from the National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Col's., O. 43229. NB 66

225-III

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

Page 11 of 288

1. Owner Pennsylvania Power & Light Co. (Name)
2 No. 4th St., Allentown, PA 18101 (Address)
Date 12/31/85
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name)
Box 467, Berwick, PA 18603 (Address)
Unit 2
W.A. 4-33753 (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 Gas-System 25-class 3

5. (a) Applicable Construction Code ASME III 19 80 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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Inst. Gas Sol. Valve	Target Rock	75KK-210-3	N/A	SV-22643	1981	Repaired	Yes

7. Description of Work Seal Weld Body to Bonnet

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 2100 psi Test Temp. 80 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 Thomas M. Gaumer Date Jan 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period AUG. 1, 1983 to SEPT. 6, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 3 19 86

(12/82)

225A - III

FORM NIS-2 OWNER'S 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 9TH ST. ALLENTOWN, PA 18101 (Address)

Date 1/20/86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
PO BOX 467, BERWICK, PA 18603 (Address)

Unit 2

WA U-33754
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 CONTAIN INSTR. GAS - SYSTEM 25A - CLASS 3

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CIG ISOL. VALVE	BORG WARNER	15334	N/A	2-26-015	1976	REPAIRED	YES

7. Description of Work SEAL WELD BODY TO VALVE BONNET

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 2100 psig Test Temp. 70 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 January 22, 19 86
Owner or Owner's Designee, Title Plant Superintendent

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period AUG. 3, 1983 to SEP. 27, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date FEB. 12 1986

(12/82)

225A-III

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

1. Owner Pennsylvania Power & Light, Co. (Name) — Date 12/31/85
2 No. 9th 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) — W.A. V53010 (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 Primary Containment Instrument Gas - System 25A-Class 3
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

Name of Component	Name of Manufacturer	Manufacturer ~~Serial No.~~ Part No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Inst. Gas Valve Bellows Assm	Target Rock	202024	N/A	PCV22643	1984	Replacement	YES
"	"	N/A	"	"	1979	REPLACED	YES

7. Description of Work Repair and Replace Valve Internals
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 2200 psig Test Temp. 70 °F

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

FORM NIS-2 (Back)

9. Remarks Manufacturers 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 Thomas M Crimmins Jr. Date January 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JAN. 4, 1985 to JAN. 5, 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.

FACTORY MUTUAL SYSTEM

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

Date JAN. 14 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V63225 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System Inst. Gas 2-25A-III
5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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)
1" Globe Valve	Borg Warner	15316	N/A	226-064	1976	Repaired	Y

7. Description of Work Body To bonnet weld Grind out To Repair Disassembly, Reweld at completion of work
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] (Owner or Owner's Designee, Title) Supt. of Plant Date November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA have inspected the components described in this Owner's Report during the period JULY 25, 1986 to OCT. 2, 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 (Inspector's Signature) Commissions NB7980 PA2204 NIBS IS (National Board, State, Province, and Endorsements)

Date NOV. 26 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V63226 (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 Primary Cont. Inst. Gas — 2-25A-III

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 70 W71

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	15360	N/A	226-063	1976	Repaired	Y

7. Description of Work Body To Bonnet weld Ground out To Remove Disassembly, Rewelded AT Completion of w

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] (Owner or Owner's Designee, Title) Supt. of Plant Date November 7, 19 86

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 BOSTON MFGR. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JULY 25, 1986 to AUG. 29, 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 (Inspector's Signature) Commissions NB7980 PA2204 FACTORY MUTUAL SYSTEM ANIS IS (National Board, State, Province, and Endorsements)

Date Nov. 10 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name)
2 North 9th ST., ALLENTOWN PA. 18101 (Address)

Date 11-5-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
RD Box 467 BERWICK PA. 18603 (Address)

Unit 2
WA V6 372-9
Repair Organization P.O. No., Job No., etc.

3. Work Performed by OWNER (Name)
(Address)

Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA

4. Identification of System PRIMARY CONT. INST. GAS 2-25A-III

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 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)
Globe Valve	Borg WARNER	14934	N/A	226-065	1976	Repaired	Y

7. Description of Work Body To Bonnet weld Ground out To Permit disassembly, Rewelded AT completion OF WORK

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGR. MUTUAL INS CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period JUL. 25, 1986 to OCT. 6, 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. Roquette Inspector's Signature Commissions NB7980 PA2304 NIBS IS National Board, State, Province, and Endorsements

Date NOV 26 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 12-4-86
2 North 9th 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 63230 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System Primary Cont. Inst. Gas 226-066 2-25A III

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 1980 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)
Main Disc	Borg Warner	Code 1HIR	N/A	226-066	1976	Replaced	Y
Main Disc	Borg Warner	[illegible]	N/A	226-066	1980	Replacement	Y

7. Description of Work Body to bonnet weld crack on check valve internals, rewold body to bonnet

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NCR 86-1369

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 12-12, 19 86
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 BOSTON MFGRS MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JULY 25, 1986 to OCT. 1, 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 Commissions NB7930 PA2204 NIBS I5
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 6, 19 87

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-5-86
2 North 9th 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) — N/A Y63558 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System Primary Cont. Inst. Gas 2-25A-III
5. (a) Applicable Construction Code ASME III 19 80 Edition, W'80 Valve W'78 Pipe 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 or Installer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Globe Valve	Target Rock	75KK-210-3	N/A	SV-22643	1981	Replaced	Y
1" Globe Valve	Target Rock	75KK-210-7	N/A	SV-22643	1983	Replacement	Y
1" Pipe	Bechtel	N/A	N/A	SP-CCC-201-1 Items 62163	1983	Replaced	Y
1" Pipe	PP&L	N/A	N/A	SP-CCC-201-1 Items 62163	1986	Replacement	Y

7. Description of Work Install New Solenoid Valve and Pipe

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NPV-1 ~~N-8~~ DATA Report ATTACHED
10-30-86
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 November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JULY 14, 1986 to OCT. 3, 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 Commissions NB7930 PA2204 NIES IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86

2 North 9th 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) — N/A V63559 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System Primary Cont. Inst. Gas 2-25A-III

5. (a) Applicable Construction Code Asme III 19 80 Edition, W80 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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)
Pilot Disc	AL Tech	N/A	N/A	SV-22648	1981	Replaced	Y
Pilot Disc	Target Rock	218	N/A	SV-22648	1984	Replacement	Y

7. Description of Work Remove body to bonnet weld, Rework Internals, Reinstall bonnet

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA have inspected the components described in this Owner's Report during the period JUL. 8, 1986 to OCT. 9, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 1986

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-5-86
2 North 9TH ST., ALLENTOWN PA. 18101 (Address) — Sheet 1 of 2
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O. Box 467 BERWICK PA. 18603 (Address) — WA V64636 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System PRIMARY CONT. INST. GAS 2-25A-III
5. (a) Applicable Construction Code ASME III 19 74 Edition, W 74 Addenda, N-242 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	J.E. LONERGAN	76147E	N/A	PSV-22643	1972	Replaced	Y
DISC	J.E. LONERGAN	1G-3541	N/A	PSV-22643	1935	Replacement	Y
SPRING	J.E. LONERGAN	155764	N/A	PSV-22643	1972	Replaced	Y
SPRING	J.E. LONERGAN	628476	N/A	PSV-22643	1985	Replacement	Y
SPRING WASHERS	J.E. LONERGAN	C17725	N/A	PSV-22643	1972	Replaced	Y

7. Description of Work Rework VALVE INTERNALS

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 30 of 288

FORM NIS-2 (Back)

9. Remarks NV-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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MA have inspected the components described in this Owner's Report during the period OCT. 3, 1986 to OCT. 8, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 18 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) Date 11-5-86
2 North 9th St, Allentown PA 18101 (Address) Sheet 2 of 2
2. Plant Susquehanna Steam Electric Station (Name) Unit 2
P.O. Box 467 Berwick PA 18603 (Address) WAV64636 (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 Primary Cont. Inst. Gas 2-35A-III
5. (a) Applicable Construction Code ASME III 19 74 Edition, W74 Addenda, A1-242 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)
Spring washers	J.E. Lonergan	A13383	N/A	PSV-22643	1975	Replacement	Y
Spindle ~~Stem~~	J.E. Lonergan	97157	N/A	PSV-22643	1982	Replaced	Y
Spindle	J.E. Lonergan	97157	N/A	PSV-22643	1985	Replacement	Y

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 12-3-86
2 North 9th St., Allentown Pa. 18101 (Address) — Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa. 18603 (Address) — N/A V64675 (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 Primary Cont. Inst. Gas 225A-III

5. (a) Applicable Construction Code Asme III 19 ~~77~~ 80 Edition, ~~W72~~ 80 W81 Addenda, None 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)
Globe Valve	Borg Warner	15334	N/A	2-26-015	1976	Replaced	Y
Globe Valve	Borg Warner	361-W-1001	N/A	2-26-015	1986	Replacement	Y
Globe Valve	Target Rock	75KK-210-3	N/A	SV-22643	1981	Replaced	Y
Globe Valve	Target Rock	75KK-210-8	N/A	SV-22643	1983	Replacement	Y
1" Pipe	Bechtel	N/A	N/A	SP-CCC-201-1 Item 63	1983	Replaced	N

7. Description of Work Remove old valves by mechanical means, install new replacements and 1" Pipe,

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 DATA REPORTS 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 December 4, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA. have inspected the components described in this Owner's Report during the period OCT. 15, 1986 to OCT. 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. Rogers III
Inspector's Signature

Commissions NB7980 - PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 15 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 12-3-86
2 North 9th St, Allentown PA 18101 (Address) — Sheet 2 of 2

2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA 18603 (Address) — WA V64675 (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 Primary Cont. Inst Gas 225A-III

5. (a) Applicable Construction Code ASME III 19 80 Edition, W80 NOV 12-15-86 Addenda, None 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)
1" Pipe	Sandvik	HT# 467413	N/A	SP-CCC-201-1 Item 63	1984	Replacement	N

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 12-4-86
2 North 9th 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) — WR V 64696 (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 PRIMARY CONT. TEST. GAS 225A-III
5. (a) Applicable Construction Code ASME III 19 74 Edition, W74 Addenda, _____ 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)
SEAT sleeve	PL Tech	N/A	N/A	PCV-22643	1979	replaced	Y
SEAT sleeve	Target Rock	NCR 86 1369	N/A	PCV-22643	1984	replacement	Y

7. Description of Work Remove Tackwelds and Perform Valve Insp., Replace parts and rewold Tacks.
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks ~~other~~ 40 12-24-86 NCR 86-1369

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 12 · 12, 1986
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA. have inspected the components described in this Owner's Report during the period Oct. 20, 1986 to Oct. 29, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 6 1987

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 12-4-86
2 North 9TH 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 V64697 (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 PRIMARY CONT. INST. GAS 225A-III
5. (a) Applicable Construction Code ASME III 19 74 Edition, W74 4 Addenda, NONE Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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)
Pressure Valve	TARGET ROCK	75KK-401 -4	N/A	PCV-22648	1979	Repaired	Y

7. Description of Work Remove Tackwelds, Rework Internals, 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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (repair or 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] Owner or Owner's Designee, Title Plant Superintendent Date December 4, 19 86

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 BOSTON MFGR. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period OCT. 8, 1986 to OCT. 20, 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 Inspector's Signature Commissions NB7980 · PA2204 NIBS IS National Board, State, Province, and Endorsements

Date DEC. 15 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 11-5-86
2 North 9th St, Allentown PA 17101 (Address) — Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA 18603 (Address) — NA V63025 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR Pump Room Cooling RV1, RV2 FF-21182B; ~~Reactor Building~~ RV1, RV2 FP-21182D — 2-34G-III
Right to 24-80
5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 Addenda, NA 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/Howmet	C10	N/A	B2215	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	N/A	B2215	1976	Replacement	Y
Disc	NOVA/Howmet	C10	N/A	B2216	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	N/A	B2216	1976	Replacement	Y
Disc	NOVA/Howmet	C10	N/A	B2205	1980	Replaced	Y

7. Description of Work Replace valve stems and disc's on ½" Yarway valves
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-3 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 7, 1986 to SEP. 29, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th St., Allentown Pa 18101 (Address) — Sheet 2 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa 18603 (Address) — WA V63025 (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 RHR Pump Room Cooling RV1, RV2 FE-21182B ~~Reactor Building~~ RV1, RV2 FP-21182D 2-34G-III
N/A 10-24-86
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 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)
Stem Assembly	Yarway	D15-A	N/A	B2205	1986	Replacement	Y
Disc.	Nutt/Hammett	C10	N/A	B2207	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	N/A	B2207	1986	Replacement	Y

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-24-86
2 North 9th 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 V64146 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System REACTOR Bldg. CHILLED WATER 2-34K-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, 1562 1516-1 1567 1335-9 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)
Valve Wedge	P.S.F.	HT# 1J80	N/A	HV-2879A2	1976	Replaced	Y
VALVE Wedge	Pacific VALVES	0505-1	N/A	HV-2879A2	1983	Replacement	Y

7. Description of Work Remove Defective VALVE Wedge AND Replace with New ONE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 56 psi Test Temp. 63 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 J. G. Blakesley Date 11/24, 1986
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM MA. have inspected the components described in this Owner's Report during the period OCT. 6, 1986 to OCT. 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.

FACTORY MUTUAL SYSTEM

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

Date Nov. 26 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name)
2 North 9th ST., ALLENTOWN PA. 18101 (Address)

Date 11-13-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
P.O. Box 467 BERWICK PA. 18603 (Address)

Unit 2

WA V64552
Repair Organization P.O. No., Job No., etc.

3. Work Performed by OWNER (Name)
(Address)

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

4. Identification of System Feedwater 2-45A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Brg. Cover Nuts	J.L. DYSON	HT # 4479156	N/A	HV-3F032B	1975	Replaced	Y
Brg. Cover Nuts	Texas Bolt	HT # KG58	N/A	HV-3F032B	1980	Replacement	Y

7. Description of Work Replace 2 NUTS on Brg. Cover

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1050 psi Test Temp. 110 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 NONE

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

Signed [signature] Date November 14, 1986
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period Oct. 14, 1986 to Oct. 23, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 1986

(12/82)

FORM NIS-2 OWNER'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 September 25, 1986
   Two North Ninth St., Allentown, PA (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 # V63913 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System DIV I RHR LPCI SDC RXR, System 249A, 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 19 80 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)
Mechanical Shock	Pacific Scientific	12629	N/A	RWS-200-H33	N/A	Replace-ment	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	07386	N/A	RWS-200-H33	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached.

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 A Blakeslee Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP. 3, 1986 to OCT. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI Page 48 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
Two North Ninth St., Allentown, PA (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 #V63878 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Div I RHR LPCI SDC, System 249B, Class 1
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 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)
Mechanical Shock	Pacific Scientific	12626	N/A	SCA-210-H14	N/A	Replace-ment	No
Mechanical Shock	Pacific Scientific	00807	N/A	SCA-210-H14	N/A	Replaced	No

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 30, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI Page 50 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
   Two North Ninth St., Allentown, PA (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 # V63917 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Div II RHR LPCI SDC, System 249F, Class 1
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 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)
Mechanical Shock	Pacific Scientific	03590	N/A	SP-DCA-210-H5006	N/A	Replacement	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	20838	N/A	SP-DCA-20-H5006	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 30, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 1986

(12/82)

2496 -I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/29/85
   Two No. 4th 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) — Work Authorization - U-43016 (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 Residual Heat Removal - System 49G Class 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, WINTER '72 Addenda, ~~N/A~~ 1516-K, 1534, 1535-2, 1334-2. Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/Winter '80, JCB 1/2/86.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Injection iso valve seat Ring	Anchor Darling	S.O. # P2915	N/A	HV-251F015B	1983	Replacement	YES
RHR Injection isolation valve	Anchor Darling	E 5855-15-1	N/A	HV-251F015B	1976	Repaired	YES
RHR Injection iso. valve seat ring	Anchor Darling	Ht# 69559	N/A	HV-251 F015B	1976	Replaced	YES

7. Description of Work Replace valve seat ring/Resurfaced Disc with weld build-up.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1235 psig Test Temp. 535 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 Thomas M. Cerino Date Jan 2, 19 86
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period FEB. 3, 1984 to MAR. 20, 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III Commissions NB 7980 PA2204 NTRS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 3 19 86

(12/82)

249G-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co (Name) — Date 12/30/95
   Two No. 4th 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) — Work Authorization - V 43350 (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 Residual Heat Removal - System 49 G-CLASS 1
5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, ~~N/A~~ 1516-K, 1534, 1535-2, 1334-2. Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/Winter '80. JCB 1/2/86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR LPCI Inj. Vlv.	Anchor DARLING VALVE Co.	JCB 1/2/85 ~~N/A~~ E5855-15-1	N/A	HV 251 F015 B	1976	Repaired	YES

7. Description of Work Rework Valve / Build-up valve disc guide surface
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1235 psig Test Temp. 535 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 Thomas M. Cummings Date Jan 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JUNE 3, 1984 to JUNE 9, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 JAN. 3 19 86

(12/82)

249G-I

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

Page 56 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/30/85
2 N. 4th 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) — W.A. V-44657 (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 Residual Heat Removal - System 49G-Class 1
5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, ~~N/A~~ 1516-K, 1534, 1535-2, 1554-2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/ winter '81 } CBeqnet 1/07/86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR LPCI ISOL. VALVE	ANCHOR DARLING	E5955-15-1	N/A	HV251F015B	1976	REPAIRED	YES

7. Description of Work Installed wear strip and guide rib.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1235 psig Test Temp. 535 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Gannon (Owner or Owner's Designee, Title) Superintendent of Plant Date January 7, 19 86

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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period DEC. 21, 1984 to JAN. 3, 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III (Inspector's Signature) Commissions NB 7980 PA 2204 NIBSI (National Board, State, Province, and Endorsements)

Date JAN. 14 1986

(12/82)

249G-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & LIGHT (Name) — Date 3/6/85

2 NORTH NINTH ST. Allentown, Pa 18101 (Address) — Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2

PO BOX 467 BERWICK, Pa 18603 (Address) — WORK AUTHORIZATION V43932 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System RESIDUAL HEAT REMOVAL 249 G.1

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, 1516-K, 1534 1535-2 ~~NA~~ 1334-2 Code Case 1/6/86 JC Bogart

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter 81 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)
RHR INBD ISOL. INJ Valve	ANCHOR. DARLING	E5855-15-2	NA	HV251F015A	1976	Repaired	Yes

7. Description of Work INSTALLED WEAR STRIP (TACK WELDED)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 1235 psi Test Temp. 535 °F

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

FORM NIS-2 (Back)

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Thomas W. [illegible] Date January 7, 1986
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period NOV. 20, 1984 to DEC. 17, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 14 1986

(12/82)

249 G -I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER & LIGHT CO. (Name) — Date 1/20/86

TWO NORTH 9TH. ST. ALLENTOWN, PA 18101 (Address) — Sheet 1 of 2

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2

P.O. BOX 467, BERWICK, PA 18603 (Address) — WA-V-43947 (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 RESIDUAL HEAT REMOVAL - SYSTEM 249 - G.1

5. (a) Applicable Construction Code ASME III 19 71 Edition, W'72 Addenda, 1516-K, 1535-2, 1534, 1334-2 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, 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)
RHR INJECT INBD ISOLATION VALVE DISC	ANCHOR DARLING	Z2342	N/A	HV 251 F015B	1984	REPLACEMENT	YES
DISC	EBASCO	SN-32	N/A	HV-E11-2F015B	1976	REPLACE	YES

7. Description of Work PREPARED LOWER GUIDE AND INSTALLED NEW DISK (HEAT # F6694)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 1235 psi Test Temp. 535 °F

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

FORM NIS-2 (Back)

9. Remarks N-2 ATTATCHED

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 January 22, 1986
Owner or Owner's Designee, Title Plant Superintendent

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS have inspected the components described in this Owner's Report during the period OCT. 30, 1984 to NOV. 11, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 FEB. 12 1986

(12/82)

249G-I

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

Page 62 of 288

1. Owner Pennsylvania Power & Light Co. (Name)
   Two N. 9th st. Allentown, PA 18101 (Address)
2. Plant Susquehanna Steam Electric Station (Name)
   PO box 467, Berwick, PA 18603 (Address)
3. Work Performed by Owner (Name)
   (Address)

Date 1/27/86
Sheet 1 of 1
Unit 2
WA V-44548 (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 RESIDUAL HEAT REMOVAL - SYSTEM 49G - CLASS 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, WINTER '72 Addenda, 1535-2 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)
RHR TESTABLE CHECK VALVE	ATWOOD MORRILL CO.	3-204	N/A	HV-251-F050A	1975	REPAIRED	YES

7. Description of Work INCREASED INNER DIAMETER OF BODY AND MACHINED BONNET SCRATCHES
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1235 psi Test Temp. 535 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (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 MARCH 17, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA have inspected the components described in this Owner's Report during the period DEC 11, 1984 to DEC. 21, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB 7980 PA 2204 NIBSI (National Board, State, Province, and Endorsements)

Date APRIL 16 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 64 of 288

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86

2 North 9th 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 V64836 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A

Authorization No. NA

(Address) — Expiration Date NA

4. Identification of System RHR — 2-49G-I

5. (a) Applicable Construction Code ASME III 1974 Edition, W'75 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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)
VALVE PLUG	CABOT CORP	1810-5-1011-32	N/A	HV-2F122B	1978	Replaced	Y
VALVE PLUG	MASONEILAN-DRESSER	N00186-522	N/A	HV-2F122B	1986	Replacement	Y
VALVE STEM	N/A	N/A	N/A	HV-2F122B	N/A	Replaced	AM Y N
VALVE STEM	MASONEILAN DRESSER	HT# 856852	N/A	HV-2F122B	1985	Replacement	AM Y N

7. Description of Work Rework VALVE INTERNALS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ ~~☒ EXEMPT~~ [illegible] 11-23-86

Other ☐ Pressure 1000 psi Test Temp. 136 °F

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

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co. of WALTHAM MA have inspected the components described in this Owner's Report during the period SEP. 25, 1986 to SEP. 28, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 66 of 288

1. Owner Pennsylvania Power & Light (Name) — Date 1/17/85

2 North Ninth Street, Allentown, PA 181C. (Address) — Sheet 1 of 2

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

P.O. Box No 467, Berwick, PA 18603 (Address) — Work Authorization U33639. (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System Residual Heat Removal 2-49 A II

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, Winter 81 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)
RHR LPCI Throttle Valve	Anchor Darling	E5853 74-2	NA	HV-E11-2F017B	1976	Replaced	Yes

7. Description of Work Replaced Disc and Stem

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure NA psi Test Temp. NA °F

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

FORM NIS-2 (Back)

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed [signature] (Owner or Owner's Designee, Title) Date 1-21 19 85

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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM MASS. have inspected the components described in this Owner's Report during the period JUNE 10, 1983 to SEPT. 13, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 FACTORY MUTUAL SYSTEM PA 2204 (National Board, State, Province, and Endorsements)

Date JAN. 22 19 85

(12/82)

249A-II

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

Page 68 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date April 1, 1986

Two N. 9th st. Allentown, PA 18101 (Address) — Sheet 1 of 1

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

PO box 467, Berwick, PA 18603 (Address) — WA U-33663 (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 Residual Heat Removal - System 49A - Class 2

JCB 4/18/86

5. (a) Applicable Construction Code ASME III 19~~80~~ 76 Edition, Winter ~~'80~~ '72 Addenda, 1534 1516-1 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)
Valve Disc 4" 300#	Anchor Darling	2	N/A	HV251F040	1982	Replacement	NO
Valve Disc 4" 300#	Anchor Darling	R398	N/A	HV251F040	1975	Replaced	NO

7. Description of Work Replaced disc in valve HV-251F040

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 375 psi Test Temp. 240 °F

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

FORM NIS-2 (Back)

9. Remarks ~~N/A~~ JCB 4/1/86 N-2 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 (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 April 1, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period AUG. 23, 1983 to AUG. 26, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 APRIL 28 1986

(12/82)

249A-II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/31/85
   Two No. 4th 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) — Work Authorization U-34092 (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 Residual Heat Removal - System 49A-Class 2.
5. (a) Applicable Construction Code ASME III 1971 Edition, W'72 Addenda, ~~N/A~~ 1516-1, 1534. Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/ Winter 1980 SCB 1/2/86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Outboard Injection Valve	Anchor Darling	S/N # 1 HT#226328	N/A	HV251F017B	83	Replacement	Yes
"	"	S/N # 9 Ht # 14	N/A	"	76	Replaced	YES

7. Description of Work Replaced Disc & Disc Nut.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1015 psig Test Temp. 522 °F

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

FORM NIS-2 (Back)

9. Remarks See Attached Manufacturers Data Report
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 (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 Thomas M Cummings Jr. (Owner or Owner's Designee, Title) Date Jan 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period DEC. 16, 1983 to JAN. 17, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 3 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-6-86
2 North 9th 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 V44644 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR — 2-49A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, 1622 1516-1 1567 1335-9 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	PACIFIC	0119-6	N/A	251F0318	1976	REPAIRED	Y

7. Description of Work ADDED PERMANENT LIFTING LUGS TO VALVE BONNET

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 280 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 Repaired (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 November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period JULY 23, 1986 to SEP. 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. Rogers III Commissions NB7080 PA2204 NIBS IS

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

Date Nov. 12 19 86

(12/82)

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

1. Owner PENNSYLVANIA Power AND Light Co (Name) — Date 11-6-86
2 North 9th 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) — N/A V63110 (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 RHR HV251F024A 2-49A-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 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)
18" Globe VALVE	ANCHOR DARLING	E5854-W2-1	N/A	251F024A	1977	Repaired	Y

7. Description of Work TACKWELD DISC TO DISC ~~SEAT~~ NUT AFTER INSPECTION OF DISC AND SEAT.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 288 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 19, 1986 to SEP. 25, 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 Inspector's Signature Commissions NB7980 PA2204 NIBS IS National Board, State, Province, and Endorsements

Date Nov. 10 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11/6/86
2 North 9th 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 463111 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR — 2-HYA-II
5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 Addenda, ~~[illegible]~~ 1516-1 & 1534 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W81 — RJM 10-24-86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	Vulcan Steel	R480	NA	HVE12F024B	1977	Replacement	Y
Valve Disc	Anchor Darling	1	NA	HVE112F024B	1979	Replacement	Y

7. Description of Work Replace Disc and Disc Nut. Tack weld Stem Nut to Disc.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 280 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 DATA Report attached
Applicable Manufacturer's Data Reports to be attached
VALVE S/N E5854-62-2

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 November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA have inspected the components described in this Owner's Report during the period AUG. 29, 1986 to SEP. 24, 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 Commissions NB7930--PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO (Name) — Date 11-5-86
2 North 9th 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 V63112 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR 2-49A-II
5. (a) Applicable Construction Code ASME III 19 80 Edition, W'80 Addenda, NA 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)
MAIN DISC	ARMCO INC	N/A	N/A	SV-22360A	1982	Replaced	Y
MAIN DISC	TARGET ROCK	1487	N/A	SV-22360A	1986	Replacement	Y

7. Description of Work Remove Body To Bonnet weld, Remove internals, Reinstall Bonnet to Body
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUL. 14, 1986 to OCT. 7, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 19 86

(12/82)

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V63113 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR 2-49A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, W80 Addenda, NA 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)
Main Disc	Armco Inc.	N/A	N/A	SY-22360B	1982	Replaced	Y
Main Disc.	Target Rock	1524	N/A	SY-22360B	1986	Replacement	Y

7. Description of Work Remove bodi to bonnet weld, Remove Internals, Reinstall Bonnet

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUL. 14, 1986 to OCT. 6, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-6-86

2 North 9th 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 V63160 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System RHR — 2-49A-II

5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 Addenda, 1516-1 & 1534 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)
Check Valve	ANCHOR DARLING	E5854-69-2	NA	251F046A	1976	Repaired	Y
Check Valve	ANCHOR DARLING	E5854-69-1	NA	251F046C	1976	Repaired	Y

7. Description of Work Tack weld AND Fillet weld valve Hinge support bracket, cap screw, AND set screw.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 288 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA. have inspected the components described in this Owner's Report during the period JUL. 14, 1986 to SEP. 16, 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 [illegible] neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Nov. 12 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-6-86
2 North 9th 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 V63161 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR 2-49A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, 1516-1 & 1534 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)
Check Valve	ANCHOR DARLING	E5854-69-6	N/A	251F046B	1976	repaired	Y
Check Valve	ANCHOR DARLING	E5854-69-4	N/A	251F046D	1976	repaired	Y

7. Description of Work Tack weld AND Fillet weld the VALVE DISC support bracket, cap screw, AND set screw

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 280 psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUL. 14, 1986 to SEP. 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 R. Rogers III Inspector's Signature Commissions FACTORY MUTUAL SYSTEM NB7980 PA2204 NIBS IS National Board, State, Province, and Endorsements

Date NOV. 12 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 86 of 288

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86

2 North 9th 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 V64274 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System RHR Piping B Loop 2-49A-II

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 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)
20" Pipe Weld	ITT GRINNEL	GBB 204-4 weld 2c	N/A	N/A	1984	Repaired	Y

7. Description of Work Remove ISI INDICATIONS by Mechanical MEANS.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks ~~N/A~~ 4P221-5-87 NCR-86-1244

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 (repair or 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 November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period AUG. 6, 1986 to AUG. 13, 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 (Inspector's Signature) Commissions NB7980 PA2204 NIBS IS (National Board, State, Province, and Endorsements)

Date JAN. 6 19 87

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86
2 North 9th 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 V64832 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA.
Expiration Date NA
4. Identification of System RHR — 2-49A-T
5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 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)
24" Pipe Weld	ITT GRINNEL	GBB-215-1 weld 3A	N/A	N/A	1984	Repaired	Y
24" Pipe Weld	ITT GRINNEL	GBB-215-1 weld 3A	N/A	N/A	1984	Repaired	Y
24" Pipe Weld	ITT GRINNEL	GBB-209-1 weld 11	N/A	N/A	1984	Repaired	Y
Pipe HANGER	Bechtel	GBB-209-H21	N/A	N/A	1984	Repaired	No

7. Description of Work Remove ISI INDICATIONS by mechanical means

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ NONE
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 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 November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM MA have inspected the components described in this Owner's Report during the period Oct. 26, 1986 to Oct. 27, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 12 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name)
2 North 9th ST., ALLENTOWN PA. 18101 (Address)
Date 11-5-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
P.O. Box 467 BERWICK PA. 18603 (Address)
Unit 2
N/A V64833 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name)
(Address)
Type Code Symbol Stamp N/A
Authorization No. NA
Expiration Date NA

4. Identification of System RHR 2-49A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 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)
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	12621	N/A	GBB-215 H15	N/A	Replacement	N
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	9442	N/A	GBB-215 H15	N/A	Replaced	N

7. Description of Work Replace existing snubber with functionally tested replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ NONE
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period OCT. 24, 1986 to OCT. 26, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 12 19 86

(12/82)

249 ~~A~~ B - II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/30/85
   2 No. 9th 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) — W.A. U-34140 (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 Residual Heat Removal - System 49B-Class 2
5. (a) Applicable Construction Code ASME III 19 ~~80~~ 74 (JCB 1/2/86) '75 (JCB 1/2/86) Edition, Winter ~~1980~~ Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/ Winter '80.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pro. Rod Sample Solenoid Valve	Target Rock	75KK-203-7	N/A	SV251F0[illegible]A	1977	Repaired	Yes

7. Description of Work Seal weld body to bonnet following valve maintenance
   JCB 1/2/86
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 375 psi Test Temp. 240 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Cosmines Jr (Owner or Owner's Designee, Title) Superintendent of Plant Date Jan 2, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period OCT. 4, 1983 to OCT. 7, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB 7980 PA2204 NIBSIS (National Board, State, Province, and Endorsements) FACTORY MUTUAL SYSTEM

Date JAN. 3 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-13-86
2 North 9th 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 V44261 (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 RHR Check Valve 2F106A 2-498-II

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 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)
1" Check Valve	Yarway	A4724	N/A	2F106A	1978	Replaced	Y
1" Check Valve	Yarway	A4725	N/A	2F106A	1978	Replacement	Y

7. Description of Work Remove check valve by grinding, Replace with New valve, and 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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed Thomas M. [illegible] Date November 14, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co. of WALTHAM MA. have inspected the components described in this Owner's Report during the period AUG. 12, 1986 to AUG. 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. Rogers III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 12-4-86
2 North 9th 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 V44262 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR — 2-49B-II

5. (a) Applicable Construction Code ASME III 1980 Edition, W80 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 (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 Assembly	Universal Valves Specialty	N/A	N/A	SV-2F105A	1982	Replaced	Y
Disc Assembly	Target Rock	NE 41 1370	N/A	SV-2F105A	1986	Replacement	Y
		--					

7. Description of Work Remove Body To Bonnet welds, Rework internals, Reinstall Bonnet and Bol

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NCR 86-1370

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 12.12, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA have inspected the components described in this Owner's Report during the period JULY 8, 1986 to SEPT. 22, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 6 19 87

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86
2 North 9th 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 V44263 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR — 2-49B-II
5. (a) Applicable Construction Code Asme III 19 80 Edition, W80 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	~~IN~~ UNIVERSAL CYCLOPS	N/A	N/A	SV2F105B	1982	Replaced	Y
DISC ASSEMBLY	Target Rock	160	N/A	SV2F105B	1986	Replacement	Y

7. Description of Work Remove VALVE BONNET To body Weld, Rework Internals, Tackweld bonnet To body.
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JULY 8, 1986 to SEP 24, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-13-86
2 North 9th St. Allentown Pa 13101 (Address) — Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa 18603 (Address) — WA V44264 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR 2-49B-II

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 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)
1" Check Valve	Yarway	A4735	NA	257F106B	1978	Replaced	Y
1" Check Valve	Yarway	A4733	NA	257F106B	1978	Replacement	Y

7. Description of Work Remove valve by Grinding, Replace with New 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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed Thomas M C Date November 14, 1986
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period AUG. 12, 1986 to SEP. 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.

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

Date Nov. 19 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86
2 North 9th 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) — W/A V63136 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR — 2-49B-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 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)
Valve Plug	QUAKER ALLOY	D3033-4	N/A	PV-2F052A	1973	Replaced	Y
Valve Plug	MASONEILAN - DRESSER	N00154-902	N/A	PV-2F052A	1986	Replacement	Y
Valve Plug	QUAKER ALLOY	1715-3	N/A	PV-2F051A	1983	Replaced	Y
Valve Plug	MASONEILAN DRESSER	N00154-902	N/A	PV-2F051A	1986	Replacement	Y

7. Description of Work Rework VALVE INTERNALS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 2233 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed J. A. Blakeslee Jr. Date November 24, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 20, 1986 to , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 15
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date
2 North 9th 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 V63162 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
Authorization No. NA
Expiration Date NA
(Address)

4. Identification of System RHR — 2-498-II

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 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)
Check Valve	ANCHOR DARLING	E5854-69-3	N/A	2F054A	1976	Repaired	Y

7. Description of Work Tack Weld AND Fillet weld the Valve Hinge support bracket, cap screw, AND set screw

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 288 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (repair or 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 J A Blakeslee Date November 11, 19 86

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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUL. 14, 1986 to SEP. 20, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-7-86
2 North 9th 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) — N/A V63163 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR 251F054B 2-49B-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, 1516-1 & 1534 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19____
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Anchor Darling	E5854-24-5	N/A	251F054B	1976	Repaired	Y

7. Description of Work Tack and Fillet weld the valve disc hinge support bracket, cap screw and set screw
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 750 psi Test Temp. Amb °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JULY 14, 1986 to SEPT. 16, 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 Inspector's Signature Commissions NB7980 PA2204 NIBS IS National Board, State, Province, and Endorsements

Date NOV. 12 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-6-86
2 North 9th ST, ALLENTOWN PA. 18101 (Address) — Sheet 1 of 2
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O. Box 467 Berwick PA. 18603 (Address) — WA V63371 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
Authorization No. NA
(Address) — Expiration Date NA
4. Identification of System RHR HEAT EXCHANGER 2-49B-TE
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
HEAT EXH	MLW	10641-Q	124	2E205B	1975	Repaired	Y
Pipe Support	Bechtel	HRC-212-H15	N/A	N/A	1984	Repaired	Y
Hex NUT	G.E.	HT# 8865342	N/A	2E205B	1981	Replacement	N
STUD Bolt	G.E.	HT# 68606	N/A	2E205B	1981	Replacement	N
Hex NUT	MLW	N/A	N/A	762E201 Item 11	1975	Replaced	N

7. Description of Work Remove Rear bracket of hanger, Replaced 7 STUDS AND 14 NUTS ON Vessel, Replace HANGER BRACKET.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 200 psi Test Temp. 72 °F

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

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGR. MUTUAL INS. CO of WALTHAM MA. have inspected the components described in this Owner's Report during the period AUG. 27, 1986 to SEP. 27, 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. Rogerson Inspector's Signature

Commissions FACTORY MUTUAL SYSTEM NB7980 PA2204 NBBS IS National Board, State, Province, and Endorsements

Date Nov. 10 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86

2 North 9th St., Allentown PA 18101 (Address) — Sheet 2 of 2

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

P.O. Box 467 Berwick PA 18603 (Address) — WO V63371 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA

Address — Authorization No. NA

Expiration Date NA

4. Identification of System RHR — 2-49B-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 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)
STUD BOLT	MLW	N/A	N/A	7642E201 Item 9	1975	Replaced	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-7-86
   2 North 9th 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 63231 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
   (Address) — Authorization No. NA
   Expiration Date NA
4. Identification of System RHR — 2-49B-II
5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 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)
Valve Plug	Quaker Alloy	D6497-1	NA	PVE11-2F051A	1977	Replaced	Y
Valve Plug	Masoneilan-Dresser	N00154-902	NA	PVE11-2F051B	1976	Replacement	Y
Valve Plug	Quaker Alloy	A6447-3	NA	PVE11-2F052B	1978	Replaced	Y
Valve Plug	Masoneilan-Dresser	N00154-902	NA	PVE11-2F052B	1976	Replacement	Y

7. Description of Work Rework Internal Valve Parts
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 280 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 None

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

Signed [signature] Date November 7, 19 86
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 BOSTON MEGES MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 17, 1986 to SEP. 25, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 18 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-5-86
2 North 9th 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 Y6415.2 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR 2-49B - II

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 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)
HEAT EXH.	MLW IND.	10641-Q	124	2E-205B	1976	REPAIRED	Y

7. Description of Work Plug Leaking Tubes

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 200 psi Test Temp. 72 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 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 November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 7, 1986 to SEP. 23, 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 Commissions NB7980 PA2304 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 10 1986

(12/82)

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

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86
2 North 9TH 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 V63370, V64153 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System RHR — 2-49B-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980W81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
HEAT EXH	MLW	10639-Q	122	2E-205A	1975	Repaired	Y
Hex NUT	MLW	N/A	N/A	762E201 Item 11	1975	Replaced	N
Hex NUT	G.E.	HT# 8865342	N/A	2E-205A	1981	Replacement	N
STUD BOLT	MLW	N/A	N/A	762E201 Item 9	1975	Replaced	N
STUD BOLT	G.E.	HT# 68606	N/A	2E-205A	1981	Replacement	N

7. Description of Work Replaced 7 STUDS AND 14 NUTS ON VESSEL Plugged AND SEAL welded one Tube, Replaced Divider plate by welding
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 200 psi Test Temp. 74 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 November 7, 19 86
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 BOSTON MFGR. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 6, 1986 to SEP. 23, 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
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEM NB7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 10 19 86

(12/82)

FORM NIS-2 OWNER'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 September 25, 1986
   Two North Ninth St., Allentown, PA (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#V63976 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System DIV I RHR SDC, System 249C, Class 2
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 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)
Mechanical Shock	Pacific Scientific	23383	N/A	DBB-215-H9	N/A	Replace-ment	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	20409	N/A	DBB-215-H9	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 29, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 1986

(12/82)

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V63024 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System RHR Valves RV1 & RV2 ET-251208 2-49E-II

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 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/Hammet	C10	NA	B2214	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	NA	B2214	1986	Replacement	Y
Disc	Nova/Hammet	C10	NA	B2204	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	NA	B2204	1986	Replacement	Y

7. Description of Work Rework Valve Internals.

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 4, 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 18 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 10-8-86
2 North 9th 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 V64224 (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 RHR 2RVFT25120A 2-~~4RE-11~~

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)
Stem assembly	Yarway	C10	N/A	B2210	1980	Replaced	Y
Stem assembly	Yarway	C10-I	N/A	B2210	1980	Replacement	Y

7. Description of Work Replace defective valve disc with new stem assembly

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 4, 1986 to AUG. 20, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 18 19 86

(12/82)

FORM NIS-2 OWNER'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 September 25, 1986
   Two North Ninth St., Allentown, PA (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#V64040 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System DIV II RHR LPCI SDC, System 249F, Class 2
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 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)
Mechanical Shock	Pacific Scientific	00633	N/A	GBB-209-H67	N/A	Replacement	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	01578	N/A	GBB-209-H67	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP. 19, 1986 to OCT. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-7-86

2 North 9th 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 64549 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System RHR 2-496-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 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)
Valve Disc	EBASCO SERVICES	27	N/A	HV-251F015A	1976	Replaced	Y
Valve Disc	Anchor DARLING	Z2341	N/A	HV-251F015A	1984	Replacement	Y

7. Description of Work Rework Valve Internals

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 288 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks: N-2 DATA Report Attached, Ref. NCR-87-0001, up 1-12-87
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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period OCT. 11, 1986 to OCT. 13, 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 Commissions NB7980 P-2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 13 19 87

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 127 of 288

1. Owner Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA (Address)
Date September 25, 1986
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#See Below (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light 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 RHR Common Non Div. System 249J, Class 2

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 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)	WA#
Mechanical Shock	Pacific Scientific	17245	N/A	GBB-214-H52	N/A	Replacement	No	V63991
Mechanical Shock	Pacific Scientific	17225	N/A	GBB-214-H53	N/A	Replacement	No	V63991
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	14418	N/A	GBB-214-H52	N/A	REPLACED	NO	
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	14413	N/A	GBB-214-H53	N/A	REPLACED	NO	

7. Description of Work Replace existing snubber with functionally tested replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 28, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date DEC. 2 19 86

(12/82)

FORM NIS-2 OWNER'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 September 25, 1986

Two North Ninth St., Allentown, PA (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 # See Below (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System RCIC System Supply, System 250, Class 1

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 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)	WA#
Mechanical Shock	Pacific Scientific	28770	N/A	SP-DCA-229-H3006	N/A	Replace-ment	No	V63928
Mechanical Shock	Pacific Scientific	28913	N/A	SP-DCA-230-H3022	N/A	Replace-ment	No	V63928
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	23628	N/A	SP-DCA-229-H3006	N/A	REPLACED	NO	
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	24390	N/A	SP-DCA-230-H3022	N/A	REPLACED	NO	

7. Description of Work Replace existing snubber with functionally tested replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP. 4, 1986 to OCT. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 19 86

(12/82)

FORM NIS-2 OWNER'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 September 25, 1986
   Two North Ninth St., Allentown, PA (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 # V63994 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System RCIC Steam Supply System 250, Class 2
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 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)
Mechanical Shock	Pacific Scientific	18804	N/A	DBB-209-H12	N/A	Replace-ment	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	20790	N/A	DBB-209-H12	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP. 17, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2, 1986

(12/82)

250A-II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light (Name) — Date 12/20/85
   2 No. 9th 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) — W.A. V44248 (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 Reactor Core Isolation Cooling - System 50A-Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, ~~N/A~~ 1516-1, 1534. Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/ Winter '81. JCB 1/2/86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCIC Test Bypass Valve	Anchor Darling	E5853-96-1	N/A	HV-249-F022	1976	Repaired	Yes

7. Description of Work Rewelded tack welds to work disc with nut
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1250 psi Test Temp. 100 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Cummings Jr. (Owner or Owner's Designee, Title) Date Jan 2, 19 86

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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period Nov. 14, 1984 to Nov. 18, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB 7980 PA2204 · NIBS IS (National Board, State, Province, and Endorsements)

Date JAN. 3 19 85

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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) — WO 116305-5 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA
(Address)

4. Identification of System Reactor Core (RCIC Water Leg) 2-50A-II

5. (a) Applicable Construction Code Asme III 1974 Edition, W74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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)
SPRING	J.E. Lonergan	86855	N/A	PSV-2F097	1983	Replaced	N
SPRING	DUER	HT# 530668	N/A	PSV-2F097	1986	Replacement	N
SPRING WASHER	J.E. Lonergan	83069	N/A	PSV-2F097	1983	Replaced	N
SPRING STOP	Jorgensen	HT# 164668	N/A	PSV-2F097	1986	Replacement	~~Y~~ N

7. Description of Work Rework Valve Internals

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 59 psi Test Temp. 64 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 NONE

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

Signed J. A. Blakesley Jr Date November 24, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA have inspected the components described in this Owner's Report during the period APR. 10, 1986 to OCT. 23, 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 Commissions NB7930 PA2904 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26 19 86

(12/82)

2-50B II

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

Page 137 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO (Name) — Date 6-16-86
TWO NORTH NINTH ST., ALLENTOWN, PA. 18101 (Address) — Sheet 1 of 1
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
PO BOX 467 BERWICK PA 18603 (Address) — WA V-53933 (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 RCIC DRAIN LINE POT 2-50B II
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 W'80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built or Installed	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEAM LINE DRAIN POT	G.E.	SP-DBB-209-3 ITEM 35	N/A	LSH-ES1-2N010	1983	REPLACED	NO
STEAM LINE DRAIN POT	G.E.	884251	N/A	LSH-ES1-2N010	1984	REPLACEMENT	NO
1" PLUG	BECHTEL	N/A	N/A	SP-DBB-209-3 ITEM 27	1983	REPLACED	NO
1" PLUG	CAPITOL	HT. 646	N/A	SP-DBB-209-3 ITEM 27	1984	REPLACEMENT	NO

7. Description of Work REPLACED ONE STEAM LINE DRAIN POT AND PLUG
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ NONE REQ
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 June 17, 1986
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 BOSTON MEGES. MUTUAL INS. CO of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JAN. 6, 1986 to MAR. 28, 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 Commissions NB 7980 PA 2204 NI RS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 30 1986

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name)
2 North 9th ST., ALLENTOWN PA. 18101 (Address)

Date 11-19-76
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
P.O. Box 467 BERWICK PA. 18603 (Address)

Unit 2
WA V6315E (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name)
(Address)

Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA

4. Identification of System Core SPRAY 251A-II

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/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)
Check Valve	ANCHOR DARLING	E5854 -70-1	N/A	2F036A	1976	Repaired	Y
Check Valve	ANCHOR DARLING	E5854 -70-4	N/A	2F036C	1976	Repaired	Y

7. Description of Work TACK WELD AND FILLET WELD THE CHECK VALVE HINGE SUPPORT BRACKET, CAP SCREW, AND SET SCREW.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 289 psi Test Temp. 79 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (repair or 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 J. A. Blakeslee Date November 24, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUL. 17, 1986 to AUG. 20, 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 Commissions NB7980 PA2204 N1BS IS

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

Date DEC. 2 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) Date 11-7-86

2 North 9th 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 V63159 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) Type Code Symbol Stamp NA

(Address) Authorization No. NA

Expiration Date NA

4. Identification of System Core Spray 2-51A-II

5. (a) Applicable Construction Code Asme III 19 71 Edition, W 72 Addenda, NA Code Case 1576-1 & 1534

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W81 RPN 10-24-86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	E5654-70-5	N/A	252F036B	1976	Repaired	Y
Check Valve	Anchor Darling	E5654-70-2	N/A	252F036C	1976	Repaired	Y

7. Description of Work Tack weld and Fillet weld check valve hinge support bracket, cap screw, and set screw

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 290 psi Test Temp. N/A °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGR. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUL. 17, 1986 to SEP. 24, 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 Inspector's Signature Commissions NB7980 PA2204 NIBS IS National Board, State, Province, and Endorsements

Date NOV. 12 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 143 of 228

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
   Two North Ninth St., Allentown, PA (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 # V63902 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System HPCI, System 252, Class 2
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 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)
Mechanical Shock	Pacific Scientific	17230	N/A	SP-DBB-215-H5005	N/A	Replace-ment	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	14467	N/A	SP-DBB-215-H5005	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 J. A. Blakeslee Jr. Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 21, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 1986

(12/82)

252B-II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 145 of 288

1. Owner Pennsylvania Power & Light, Co. (Name) — Date 12/29/85
2 N. 9th 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) — Work Authorization V-44237 (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 High Pressure Coolant Injection, System 52B - Class 2.

5. (a) Applicable Construction Code ASME III 19 72 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 Hanger	Bechtel	N/A	N/A	SP-HBB-234 H14	1983	Repaired	No

7. Description of Work Re-install Hanger After Lube Oil Cooler Maintenance.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NONE
Other ☐ Pressure 70 psi Test Temp. ____ °F

J. Boquet 12/29/85

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Cummins Jr Date January 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS have inspected the components described in this Owner's Report during the period DEC. 6, 1984 to DEC. 11, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 JAN. 14 19 86

(12/82)

252B-II

FORM NIS-2 OWNER'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 1/6/86
   2 No. 4th St., Allentown, PA 18101 (Address) — Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
   PO Box 467, Berwick, PA 18603 (Address) — W.A. V44473 (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 High Pressure Coolant. Injection 252-B, II
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, 1516-1, 1622 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)
HPCI Turb Exhaust CK Vlv Disc	Anchor Darling	S/N 2 HT#: C4940	N/A	255F049	1983	Replacement	Yes
" "	P.S.F.	HT#: 4703 S/N X4289	N/A	255F049	1978	Replaced	Yes

7. Description of Work Installed New Disc.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 50 psi Test Temp. 290 °F

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

FORM NIS-2 (Back)

9. Remarks Attached N-2

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 (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 Thomas M Cummings Jr. (Owner or Owner's Designee, Title) Superintendent of Plant Date January 7, 1986

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MASS have inspected the components described in this Owner's Report during the period NOV. 29, 1984 to DEC. 2, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 14 1986

(12/82)

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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 and Light Co. (Name) — Date 11-7-86
2 North 9th 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 44609 (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 High Pressure Coolant 2-52B-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Pacific	0118-8	N/A	255F049	1978	Repaired	Y

7. Description of Work Weld 6 Gussets on Disc to stiffen upper step plate

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 930 psi Test Temp. 540 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 November 11, 1986
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 27, 1986 to OCT. 6, 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 Commissions [illegible] PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 17 1986

(12/82)

253A-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/30/85
2 No. 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) — Work Authorization U-33543 (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 Standby Liquid Control-- System 53A- CLASS 1
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 19 80 / Winter '80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SBLC Discharge Check Valve	Borg Warner	17828	N/A	C41-2F007	1976	Repaired	Yes

7. Description of Work Seal weld body to bonnet on valve
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1005 psi Test Temp. 88 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Cummins Jr (Owner or Owner's Designee, Title) Date 1/21/86, 19

Superintendent of Plant-Susq.

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JUNE 17, 1983 to AUGUST 9, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date FEB. 3 19 86

(12/82)

8 5 0 2 2 1 1 4 2 4

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI Page 153 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 12-4-86
2 North 9th 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 V63509 (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 STANDBY LIQUID CONTROL 253A-T
5. (a) Applicable Construction Code ASME 1977 Edition, S77 Addenda, NONE Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/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)
Trigger Assembly	CONAX	452	N/A	248F004B	1976	replaced	N
Trigger Assembly	CONAX	200	N/A	248F004B	1981	replacement	N
Trigger Assembly	CONAX	453	N/A	248F004A	1976	replaced	N
Trigger Assembly	CONAX	195	N/A	248F004A	1981	replacement	N

7. Description of Work Replace explosive ACTUATOR AFTER Firing For Surveillance
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1250 psi Test Temp. 72 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (repair or 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 December 4, 1986

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUG. 27, 1986 to SEPT. 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III Commissions NB7980 PA2204 NIBS IS

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

Date DEC 15 1986

(12/82)

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

Page 155 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
   Two North Ninth St., Allentown, PA (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#V64004 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System ESW LOOP A, System 254A, 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 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)
Mechanical Shock	Pacific Scientific	23387	N/A	HRC-229-H29	N/A	Replace-ment	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	21554	N/A	HRC-229-H29	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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. A. Blakeslee Jr. Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 30, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-19-86
2 North 9th 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) — W/O V64353 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System EMERGENCY SERVICE WATER 254A-III

5. (a) Applicable Construction Code ASME III 1971 Edition, W72 Addenda, 1516-1, 1534 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/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)
4" Check Valve	ANCHOR DARLING	E1595 -2-1	N/A	2-10-104	1983	Replaced	Y
4" Check Valve	ANCHOR DARLING	E3279 -1-4	N/A	2-10-109	1984	Replacement	Y

7. Description of Work Replace VALVE with New EQUIVALENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 123 psi Test Temp. 62 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NPI-1 CPTP Refait attached, Ref. NCR 86-1243, 4p 1-1287
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-3

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

Signed J. A. Blakeslee Jr. Date November 24, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 2, 1986 to SEP. 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. Rogers III Commissions NB7980 PA2204 NIBS 1S
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 13 19 87

(12/82)

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

Page 154 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-20-86

2 North 9th 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) — N/A V64355 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System EMERGENCY SERVICE WATER 2SWA-III

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, 1561-~~1~~-1534 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/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)
"4" check Valve	ANCHOR DARLING	E1595 -2-2	N/A	2-10-112	1983	Replaced	Y
"4" check valve	ANCHOR DARLING	E3279 -1-1	N/A	2-10-112	1984	Replacement	Y

7. Description of Work Replace valve with a new equivalent

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 150 psi Test Temp. 72 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NDE-1 UT Report attached. Ref. NCR 86-1243. 1-12-87

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 or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NCHC

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

Signed J. A. Blakeslee Date November 24, 1986

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 4, 1986 to SEP. 25, 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 Commissions NB7980 PA2204 NIBS 15.

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

Date JAN. 13 1987

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-19-83
2 North 9th 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) — NA Y64429 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System Emergency Service Water 254A-III
5. (a) Applicable Construction Code Asme III 19 71 Edition, W72 Addenda, 1516-1 + 1534 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)
4" Check Valve	ANCHOR DARLING	E1595 -2-3	N/A	2-10-110	1983	Repaired	Y
4" check Valve	ANCHOR DARLING	E3279 -1-1X23 ASM 11-19-86	N/A	2-10-110	1984	Replacement	Y

7. Description of Work Replaced Valve with New Equivalent
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 138 psi Test Temp. 78 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 Data Form attached. Ref. NCR 86-1243 & NCR 86-0577. kpo 1-12-87

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 December 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEPT. 2, 1986 to SEPT. 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.

FACTORY MUTUAL SYSTEM

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

Date JAN 13 19 87

(12/82)

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

Page 163 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-20-86
2 North 9th 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 Y6441C (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System EMERGENCY SERVICE WATER 254A - III
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, ~~NA~~ 1516-1 1534 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/W81 RJM 12-15-86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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" check Valve	ANCHOR DARLING	E1595 -2-4	N/A	2-10-113	1983	Replaced	Y
4" check Valve	ANCHOR DARLING	E3279 -1-~~3~~ 2	N/A	2-15-113	1984	Replacement	Y

7. Description of Work Replace Valve with New EQUIVALENT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 134 psi Test Temp. 70 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NPV-1 DATA REPORT attached. REF. NCR 86-1243 & NCR 86-0577. Exp 1-12-87

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 December 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEPT. 4, 1986 to SEPT. 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III Commissions NB7930 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 13 19 87

(12/82)

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

Page 165 of 288

1. Owner Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA (Address)
Date September 25, 1986
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# V64006 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light 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 ESW Loop B, System 254B, Class 3

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 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)
Mechanical Shock	Pacific Scientific	28775	N/A	SP-HBC-239-H5012	N/A	Replacement	No
Mechanical Shock	Pacific Scientific	24395	N/A	SP-HBC-239-H5012	N/A	Replaced	No

7. Description of Work Replace existing snubber with functionally tested replacement

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP. 7, 1986 to OCT. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec 2 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 167 of 288

1. Owner Pennsylvania Power and Light Co. (Name) — Date 10-9-86

2 North 9th 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) — WO V6446.9 (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 Control Rod Drive Pipe manifold 2-55-II

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 1980 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)
8" Pipe weld	Bechtel	VBB 202-1 FW2	N/A	N/A	1983	Repaired	Y

7. Description of Work Removed ISI indications by mechanical means

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 Repaired (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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 11, 1986 to SEP. 16, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 12 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-20-86
2 North 9th 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 V64645 (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 CONTROL ROD HYDRAULICS 255B-II
5. (a) Applicable Construction Code ASME III 1974 Edition, W-75 Addenda, NONE Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/WB1
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	CARPENTER TECHNOLOGY	HT# 77363	N/A	W-10-35	1977	Replaced	Y
VALVE DISC	DRAGON VALVE	HT# 842109	N/A	W-10-35	1984	Replacement	Y

7. Description of Work Rework Valve Internals
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 None

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

Signed [signature] Date December 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period ~~SEPT.~~ OCT. 2, 1986 ~~WEB 12-15-86~~ to ~~SEPT.~~ OCT. 7, 1986 ~~WEB 12-15-86~~, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 DEC. 15 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-21-86
2 North 9TH 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 V6416-46 (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 CONTROL ROD HYDRAULICS 255B-II
5. (a) Applicable Construction Code ASME III 1974 Edition, W-75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/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)
VALVE DISC.	CARPENTER TECHNOLOGY	HT# 77363	N/A	I-06-35	1977	Replaced	Y
VALVE DISC.	DRAGON VALVE	HT# 842109	N/A	I-06-35	1984	Replacement	Y

7. Description of Work Rework Valve Internals
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 172 of 288

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 None

Certificate of Authorization No. NA Expiration Date NA

Signed [signature] Date December 2, 19 86
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 Boston Mfgrs. Mutual Ins. Co. of Waltham, Ma. have inspected the components described in this Owner's Report during the period Oct. 2, 1986 to Oct. 7, 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 Commissions NB7930 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 15 19 86

(12/82)

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

Page 173 of 288

1. Owner Pennsylvania Power & Light (Name)
2 North Ninth Street, Allentown, PA 18101 (Address)

Date 1/17/85
Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name)
P.O. Box No 467, Berwick, PA 18603 (Address)

Unit 2
Work Authorization U33930
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner (Name)
(Address)

Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA

4. Identification of System Reactor Water Cleanup Cleanup Sys 2-61BI

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter 31 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)
RWCU Pmp Suction Valve	Anchor Darling	E5853-64-1	NA	HV244F001	1975	Replaced	Yes

7. Description of Work Replaced and Machined Disc (Heat# E2432)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1025 psi Test Temp. 535 °F

NOTE: Supplementary sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 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.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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FORM NIS . (Back)

9. Remarks 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 NA

Certificate of Authorization No. NA Expiration Date NA

Signed R Keene Date 1-21- 19 85
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 BOSTON MFGRS MUTUAL INS. CO. of have inspected the components described in this Owner's Report during the period SEPT. 10, 1983 to OCT. 6, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 FACTORY MUTUAL SYSTEM PA2204
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN 24 1985

(12/82)

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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 Page 125 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
   Two North Ninth St., Allentown, PA (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 # V63937 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System RWCU Isolation Inst., System 261C, Class 1
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 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)
Mechanical Shock	Pacific Scientific	29006	N/A	SP-DCA-233-H3003	N/A	Replace-ment	No
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	22980	N/A	SP-DCA-233-H3003	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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. A. Blakeslee Date 11-25-86 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Sep. 12, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date DEC. 2 1986

(12/82)

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

1. Owner: Pennsylvania Power & Light (Name)
2 North Ninth Street, Allentown, PA 18101 (Address)

Date: 2/27/85
Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
P.O. Box No 467, Berwick, PA 18603 (Address)

Unit: II
Work Authorization U34021 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Owner (Name)
(Address)

Type Code Symbol Stamp: NA
Authorization No.: NA
Expiration Date: NA

4. Identification of System: Reactor Water Clean-up 261-BIII

5. (a) Applicable Construction Code: ASME III 19 71 Edition, Winter 72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Winter 81 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)
Clean-up Sys. Recirc Pump	Union	284173	NA	2P221A	1972	Replaced	Yes

7. Description of Work: Replaced Gland Studs and Nuts

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1190 psi Test Temp. 535 °F

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

FORM NIS-2 (Back)

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed H Keen (Owner or Owner's Designee, Title) Date 2-28-85, 19

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period FEB. 26 1985 to MAR. 4, 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. Rogers III (Inspector's Signature) Commissions FACTORY MUTUAL SYSTEM PA2204 NB7980 NIBS (National Board, State, Province, and Endorsements)

Date MARCH 4 19 85

(12/82)

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261A-III

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 179 of 288

1. Owner PENNSYLVANIA POWER & LIGHT CO. (Name) — Date 1/6/86

TWO N. 9TH 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 V44260 (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 REACTOR WATER CLEANUP - SYSTEM 61 A 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 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" FEMALE FLANGE	NATIONAL FLANGE AND FITTING CO.	H.T. # BHH77	N/A	SP-EBL-203-B ITEM 24	1983	REPLACEMENT	NO
1" FEMALE SW FLANGE	LADISH	H.T.# MTZBH	N/A	"	1979	REPLACED	NO

7. Description of Work WELDED NEW FLANGE TO EXISTING FLOW TRANSMITTER FT-245B38.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 1190 psi Test Temp. 120 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Cummins Jr (Owner or Owner's Designee, Title) Superintendent of Plant Date January 7, 1986

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period NOV. 14, 1984 to DEC. 19, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 20 1986

(12/82)

261B-III

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 181 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date April 1, 1986

Two N. 9th st. Allentown, PA 18101 (Address) — Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) — Unit ~~1~~ 2 JCB 4/18/86

PO box 467, Berwick, PA 18603 (Address) — WA V-53135 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp N/A

Authorization No. N/A

(Address) — Expiration Date N/A

4. Identification of System Reactor Water Cleanup - System 61B - Class 3

5. (a) Applicable Construction Code ASME ~~III~~ P+V 1968 ~~1971~~ Edition, ~~Winter '72~~ MARCH '70 JCB 4/18/86 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/Winter '80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump	Union	284174	N/A	2P-221B	1972	Repair	No

7. Description of Work Repair and rework RWCU pump internals to correct leakage

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 1190 psi Test Temp. 533 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date April 1, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA. have inspected the components described in this Owner's Report during the period AUGUST 12, 1985 to AUGUST 13, 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III
Inspector's Signature

Commissions NB 7980 PA 2204 NI BS IS
National Board, State, Province, and Endorsements

Date 4-18 19 86

(12/82)

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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 and Light Co. (Name) — Date 11-5-86
2 North 9th St., Allentown PA. 18101 (Address) — Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA. 18603 (Address) — WA V63023 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System Reactor Water Cleanup 2-61B-III
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 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/Hewmet Corporation	C10	N/A	B2219	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	N/A	B2219	1986	Replacement	Y
Disc	Nova/Hewmet Corporation	C10	N/A	B2208	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	N/A	B2208	1986	Replacement	Y
Disc	Nova/Hewmet Corporation	C10	N/A	B2213	1980	Replaced	Y

7. Description of Work Replace valve stems and discs on ½" Yarway valves.
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 184 of 288

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 29, 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS

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

Date DEC. 3 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name)
2 North 9th St, Allentown PA 18101 (Address)

Date 11-5-86

Sheet 2 of 2

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

Unit 2

WA V63023
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner (Name)
(Address)

Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA

4. Identification of System Reactor Water Cleanup 2-61B-III

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 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)
Stem Assembly	Yarway	D15-A	N/A	B2213	1986	Replacement	Y
Disc	Nova/Newnes Corporation	C10	N/A	B2217	1980	Replaced	Y
Stem Assembly	Yarway	D15-A	N/A	B2217	1986	Replacement	Y

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name)
2 North 9th ST., ALLENTOWN PA. 18101 (Address)

Date 11-24-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
P.O. Box 467 Berwick PA. 18603 (Address)

Unit 2

N/A V63120, V64689
Repair Organization P.O. No., Job No., etc.

3. Work Performed by OWNER (Name)
(Address)

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

4. Identification of System Reactor Water Cleanup 2-61B-III

5. (a) Applicable Construction Code ASME VIII 19 71 Edition, W73 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)
Heat Exh.	G.E.	223400	52975	2E207A	1972	Repaired	Y
Heat Exh	G.E.	223401	52975	2E207	1972	Repaired	Y

7. Description of Work GRIND OUT Defective Diaphram AND weld a New Diaphram Back on Heat Exh

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 187 of 288.

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 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. Blakeslee Date 11/24, 19 86
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 BOSTON MFGRS MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 1, 1986 to SEP. 30, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26, 19 86

(12/82)

FORM NIS-2 OWNER'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 4/3/84

Two North 9th. St. Allentown, PA 18101 (Address) — Sheet 1 of 2

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

P.O. Box 467, Berwick, PA 18603 (Address) — WA-U34059, WA-U34025, WA-U34094, WA-U34102 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp

Authorization No.

(Address) — Expiration Date

4. Identification of System Control Rod Drive SUS. #262 A, Cl. 1

5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, 1361 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, W80 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)
Control Rod Drive	General Electric	2722				Replaced	
Control Rod Drive	General Electric	5494				Replaced	
Control Rod Drive	General Electric	4236				Replaced	
Control Rod Drive	General Electric	4482				Replaced	
Control Rod Drive	General Electric	3951				Replaced	

7. Description of Work Replaced defective Control Rod Drives

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1025 psi Test Temp. 535 °F

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

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] (Owner or Owner's Designee, Title) Date 4-6-84, 19____

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 Boston Mfg. Mutual of Waltham, Ma. have inspected the components described in this Owner's Report during the period 9-1-83 to 9-28-83, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date April 17, 19 84

(12/82)

8 5 0 2 2 1 1 5 5 2

1. Owner - Pennsylvania Power & Light Co.
   Two North Ninth Street
   Allentown, PA 18101

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

3. Work Performed by - Owner

4. Identification of System - Control Rod Drive SUS #262

5a. Applicable Constr. Code - Section III, 1971, W72, Code Case 1361

b. Section XI, 1980, W80 Addenda

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	REPAIRED, REPLACED, OR REPLACEMENT
Control Rod Drive	GENERAL ELECTRIC	5533	Replacement
Control Rod Drive	GENERAL ELECTRIC	7900	Replacement
Control Rod Drive	GENERAL ELECTRIC	5270	Replacement
Control Rod Drive	GENERAL ELECTRIC	5672	Replacement
Control Rod Drive	GENERAL ELECTRIC	5138	Replacement

YEAR BUILT	ASME CODE STAMPED
5533-1974	Yes
7900-1978	Yes
5270-1973	Yes
5672-1974	Yes
5138-1974	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 and Light Co. (Name) — Date 11-7-86
2 North 9th 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 V53447 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System Reactor Vessel 2-62A-I
5. (a) Applicable Construction Code Asme III 19 74 Edition, W 74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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/Hounet	C7	NA	HV241F001	1979	Replaced	Y
Stem Assembly	Yarway	C10A	NA	HV241F001	1980	Replacement	Y

7. Description of Work Rework Valve Internals
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 [illegible] 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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 10 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-7-86
2 North 9th 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 V63128 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System Reactor Vessel 2-62A-I

5. (a) Applicable Construction Code Asme III 19 74 Edition, W 74 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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/Hammer	A5 & A7	NA	HV-B21-F002	1977	Replaced	Y
Stem Assembly	Varway	D5-D	NA	HV-B21-F002	1982	Replacement	Y

7. Description of Work Rework Valve Internals

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 10, 1986 to OCT. 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 Commissions NB7900 PA2224 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 18 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86
2 North 9th 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 V63131, V63134 (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 CRD-5843, 4651 — 2-62A-I
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 W'80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD-5843	G.E.	A4528	N/A	N/A	1981	Replaced ~~Repaired~~	Y
CRD-5843	G.E.	A4244	N/A	N/A	1981	Replacement	Y
CRD-4651	G.E.	7966	N/A	N/A	1971	Replaced	Y
CRD-4651	G.E.	A3847	N/A	N/A	1971	Replacement	Y

7. Description of Work Replace CRD Due To Degraded Performance
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1004 psi Test Temp. 176 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 196 of 288

FORM NIS-2 (Back)

9. Remarks ~~N/A~~ N-2 Data 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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP 10, 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86
2 North 9th 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 63135, V 63139 (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 CRD - 4259, 3047 J-63A-I
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 W'80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD-4259	G.E.	A3823	N/A	N/A	1981	Replaced ~~Replacement~~	Y
CRD-4259	G.E.	7895	N/A	N/A	1978	Replacement	Y
CRD-3047	G.E.	4342	N/A	N/A	1981	Replaced	Y
CRD-3047	G.E.	A5435	N/A	N/A	1981	Replacement	Y

7. Description of Work Replace CRD's Due To Degraded Performance
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A N-2 DATA REPORTS 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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP 10, 1986 to OCT 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86
2 North 9th St., Allentown PA 18101 (Address) — Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA. 18603 (Address)
WAV63137 WAV63144 WAV63378 WAV63142 WAV63133 WAV63141
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 Control Rod Drives 2-62A-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, ~~N/A~~ 1.361 Code Case N-249-6
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 WB# 0in

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Control Rod Drive	G.E.	A5500	N/A	CRD-4231	1971	Replaced	Y
Control Rod Drive	G.E.	9219	N/A	CRD-4231	1978	Replacement	Y
Control Rod Drives	G.E	A4571	N/A	CRD-2617	1971	Replaced	Y
Control Rod Drives	G.E.	6225	N/A	CRD-2619	1978	Replacement	Y
Control Rod Drives	G.E.	A4220	N/A	CRD-2219	1971	Replaced	Y

7. Description of Work Replace CRD's due to degraded performance

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 DATA reports For Serial #'s 9219, 6885, 7514, 9161
Applicable Manufacturer's Data Reports to be attached
ATTACHED To UNIT 1 N-5 Package. N-2 DATA Report for 4453 + A3802 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 T M Cimmino Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 10, 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 11-6-86
2 North 9th St, Allentown PA 18101 (Address) — Sheet 2 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA. 18603 (Address) — WA V63137, WA V63144, WA V63378, WA V63142, WA V63133, WA V63141 (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 Control Rod Drives 2-62A-I
5. (a) Applicable Construction Code ASME III 19 71 Edition, W 72 Addenda, 1301 ~~N/A~~ N/A Code Case 1-24-86
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 ~~W80~~ N/A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Control Rod Drive	G.E.	8514	N/A	CRD-2311	1978	Replacement	Y
Control Rod Drive	G.E.	A5599	N/A	CRD-5025	1981	Replaced	Y
Control Rod Drive	G.E.	9161	N/A	CRD-5035	1978	Replacement	Y
Control Rod Drive	G.E.	A4609	N/A	CRD-0227	1978	Replaced	Y
Control Rod Drive	G.E.	A3802	N/A	CRD-0227	1981	Replacement	Y
Control Rod Drive	G.E.	5602	N/A	CRD-2643	1978	Replaced	Y
Control Rod Drive	G.E.	9453	N/A	CRD-2643	1978	Replacement	Y

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86
2 North 9th 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 V63138, V63146 (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 CRD - 3435, 1827 — 2 - 62A-I
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 1980 W80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD 3435	G.E.	A4436	N/A	N/A	1981	Replaced ~~Repaired~~	Yes
CRD 3435	G.E.	A3951	N/A	N/A	1981	Replacement	Yes
CRD-1827	G.E.	A3972	N/A	N/A	1981	Replaced	Y
CRD-1827	G.E.	8841	N/A	N/A	1977	Replacement	Y

7. Description of Work Replace CRD due to degraded performance
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1009 psi Test Temp. 171 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks ~~N/A~~ N-2 DATA 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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 10, 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 11-6-86
2 North 9th St., Allentown Pa. 18101 (Address) — Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA. 18603 (Address)
WA V63145 WA V63148 WA V63380 WA V63132 WA V63141 WA V62377 WA V63143 WA V63149 WA V63379 WA V63144
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 Control Rod Drives 2-62A-I
5. (a) Applicable Construction Code ASME III 1971 Edition, W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Control Rod Drive	G.E.	4529	N/A	CRD-1839	1981	Replaced	Y
Control Rod Drive	G.E.	A1059	N/A	CRD-1839	1978	Replacement	Y
Control Rod Drive	G.E.	A4660	N/A	CRD-0623	1981	Replaced	Y
Control Rod Drive	G.E.	A4535	N/A	CRD-0623	1982	Replacement	Y
Control Rod Drive	G.E.	A4225	N/A	CRD-1030	1981	Replaced	Y

7. Description of Work Replace CRD's due to degraded performance

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1050 psi Test Temp. 176 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 DATA Reports for serial #s ~~Dim~~ 7837, 9169, 7708, 7724
Applicable Manufacturer's Data Reports to be attached
ATTACHED TO UNIT 1 N-5 Package. All others 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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 10, 1985 to OCT. 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 Commissions NB7980 - PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17, 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86
2 North 9th St., Allentown Pa. 18101 (Address) — Sheet 2 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa. 18603 (Address)
WA V63145 WAV63148 WAV63380 WA63132 WAV6314 WA V63377 WAV63143 WAV63149 WAV63379 WAV6314
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Olover (Name)
Address
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Control Rod Drives 3-62A-I
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 W80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Control Rod Drive	G.E.	7735	N/A	CRD-1039	1978	Replacement	Y
Control Rod Drive	G.E.	A5465	N/A	CRD-[illegible]	1981	Replaced	Y
Control Rod Drive	G.E.	7744	N/A	CRD-[illegible]	1978	Replacement ~~Replaced~~	Y
Control Rod Drive	G.E.	A3969	N/A	CRD-0239	1981	Replaced	Y
Control Rod Drive	G.E.	7809	N/A	CRD-0239	1978	Replacement	Y
Control Rod Drive	G.E.	A3980	N/A	CRD-0447	1981	Replaced	Y
Control Rod Drive	G.E.	7774	N/A	CRD-0447	1978	Replacement	Y
Control Rod Drive	G.E.	A4358	N/A	CRD-~~[illegible]~~ 1423 N/A N/A	1981	Replaced	Y
Control Rod Drive	G.E.	7837	N/A	CRD-~~[illegible]~~ 1423 N/A	1978	Replacement	Y
Control Rod Drive	G.E.	A4707	N/A	CRD-0615	1981	Replaced	Y
Control Rod Drive	G.E.	9169	N/A	CRD-0615	1978	Replacement	Y
Control Rod Drive	G.E.	A4578	N/A	CRD-3003	1981	Replaced	Y
Control Rod Drive	G.E.	7758	N/A	CRD-3003	1978	Replacement	Y
Control Rod Drive	G.E.	4540	N/A	CRD-1803	1981	Replaced	Y
Control Rod Drive	G.E.	7824	N/A	CRD-1803	1978	Replacement	Y

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-6-86
2 North 9th 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 V63150 V63136 (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 CRD's - 0627, 4247 2-63A-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 72 Addenda, ~~N/A~~ 1361 ~~N/A~~ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W'80 1987 10-24-86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CRD - 0627	G.E.	A4445	N/A	N/A	1981	Replaced	Y
CRD - 0627	G.E	8175	N/A	N/A	1978	Replacement	Y
CRD - 4247	G.E.	A4541	N/A	N/A	1981	Replaced	Y
CRD - 4247	G.E.	9525	N/A	N/A	1978	Replacement	Y

7. Description of Work Replace CRD's Due To Degraded Performance

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks ~~N/A~~ N-2 DATA REPORTS 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 November 7, 19 86
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 BOSTON MFGES MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period FEB 9, 1986 to SEP. 10, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 13 19 86

(12/82)

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-5-86

2 North 9th ST., ALLENTOWN PA. 18101 (Address) — Sheet 1 of 3

2. Plant SUSQUEHANNA STEAM Electric STATION (Name) — Unit 2

P.O. Box 467 Berwick PA. 18603 (Address) — WA V63154, V64481 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA

(Address) — Authorization No. NA

Expiration Date NA

4. Identification of System MAIN STEAM — 2-62A-I RJM 11-4-86

5. (a) Applicable Construction Code ASME III 19 71 Edition, S71 Addenda, 1535-2 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 ~~80~~ 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)
STUD BOLT	Jas. DYSON	HT# 3118937	N/A	HV241F023D	1974	Replaced	N
STUD BOLT	ATWOOD & Morrill	HT# 6053403	N/A	HV241F023D	1975	Replacement	N
STUD BOLT	ATWOOD & morrill	1	N/A	HV241F023D	1976	Replacement	N
STUD BOLT	ATWOOD & morrill	3	N/A	HV241F023D	1976	Replacement	N
STUD BOLT	ATWOOD & morrill	4	N/A	HV241F023D	1976	Replacement	N

7. Description of Work Replace cover studs and nuts during valve inspection and rework. 7 studs were replaced by larger studs due to necessity of reworking the stud holes. RJM 11-4-86

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 DATA Reports 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 November 11, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA have inspected the components described in this Owner's Report during the period SEP 4, 1986 to OCT. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th St., Allentown PA 18101 (Address) — Sheet 2 of 3
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick PA 18603 (Address) — WA V6,315-4, V64481 (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 — 62A 2-~~33~~-I
5. (a) Applicable Construction Code Asme III 19 71 Edition, S'71 Addenda, 1535-2 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)
STUD BOLT	Atwood & Morrill	6	N/A	HV241F0,25D	1986	Replacement	N
STUD BOLT	Atwood & Morrill	7	N/A	HV241F0,25D	1986	Replacement	N
STUD BOLT	Atwood & Morrill	9	N/A	HV241F0,25D	1986	Replacement	N
STUD BOLT	Atwood & Morrill	11	N/A	HV241F0,25D	1986	Replacement	N
HEX NUT	Atwood & Morrill	HT. # M7085	N/A	HV241F0,25D	1984	Replaced	N
HEX NUT	Atwood & Morrill	HT # 8099157	N/A	HV241F0,25D	1985	Replacement	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-24-86

2 North 9th ST, ALLENTOWN PA. 18101 (Address) — Sheet 1 of 7

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2

P.O Box 467 BERWICK PA. 18603 (Address) — WA V63192, V63248 (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 RELIEF VALVES FOR VESSEL 2-62A, CL. I.

5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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)
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0086	N/A	PSV-2F013A	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0128	N/A	PSV-2F013A	1982	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0113	N/A	PSV-2F013B	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0112	N/A	PSV-2F013B	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0085	N/A	PSV-2F013C	1981	REPLACED	YES

7. Description of Work REMOVED MSRV'S FROM PLANT. RETESTED VALVES OFFSITE PER SPEC. M-1085. REFURBISHED VALVES AS REQUIRED (REPAIRS/REPLACEMENTS DOCUMENTED). RE-INSTALLED MSRV. CONDUCTED LEAK TEST AND DOCUMENTED.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 1029 psi Test Temp. 176 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

1. PRESSURE SET CHANGE FROM 1205 psig. TO 1185 psig.

FORM NIS-2 (Back)

9. Remarks ~~NONE.~~ hpo 12-2-86 RELIEF VALVES S/N 0020, 0023, AND 0034,
Applicable Manufacturer's Data Reports to be attached
THE NV-1 FORMS ARE CONTAINED IN THE ORIGINAL N-5 PACKAGE. NV-1'S FOR S/N'S 0128, 0129, 0130, 0132, AND 0133 ARE CONTAINED IN THE NIS-2'S DATED 9-5-86, FIRST RFO OF UNIT 1. hpo 12-2-86

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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

Signed J.A. Blakesley Jr. (Owner or Owner's Designee, Title) Supt. of Plant Date 11/25/86, 19

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 BOSTON MFGS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period AUGUST 21, 1986 to OCTOBER 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 (Inspector's Signature) Commissions NB7980 PA2204 NIES IS (National Board, State, Province, and Endorsements)

Date DEC. 3 1986

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-24-86
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 (Address) — Sheet 2 of 7

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O. BOX 467 BERWICK, PA. 18603 (Address) — WA V63192, V63248 (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 RELIEF VALVES FOR VESSEL, 2-62A, CL I.

5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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)
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0129	N/A	PSV-2F013C	1982	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0083	N/A	PSV-2F013D	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0086	N/A	PSV-2F013D	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0112	N/A	PSV-2F013E	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0133	N/A	PSV-2F013E	1982	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0089	N/A	PSV-2F013F	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0029	N/A	PSV-2F013F	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0094	N/A	PSV-2F013G	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0034	N/A	PSV-2F013G	1980	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0084	N/A	PSV-2F013H	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0085	N/A	PSV-2F013H	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO	N63790-00-0091	N/A	PSV-2F013J	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0132	N/A	PSV-2F013J	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO	N63790-00-0096	N/A	PSV-2F013K	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0094	N/A	PSV-2F013K	1981	REPLACEMENT	YES

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-24-86
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 (Address) — Sheet 3 of 7

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O BOX 467, BELWICK, PA. 18603 (Address) — WA-V63192, V63248 (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 RELIEF VALVES FOR VESSEL. 2-62A, CLI.

5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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)
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0093	N/A	PSV-2F013L	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0091	N/A	PSV-2F013L	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0095	N/A	PSV-2F013M	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0096	N/A	PSV-2F013M	1980	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0092	N/A	PSV-2F013N	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0093	N/A	PSV-2F013N	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0029	N/A	PSV-2F013P	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0023	N/A	PSV-2F013P	1980	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0087	N/A	PSV-2F013R	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0090	N/A	PSV-2F013R	1981	REPLACEMENT	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0090	N/A	PSV-2F013S	1981	REPLACED	YES
MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0130	N/A	PSV-2F013S	1982	REPLACEMENT	YES
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-36-0122	N/A	S/N-0130 PSV-2F013S	1982	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0017	N/A	S/N-0130 PSV-2F013S	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-36-0136	N/A	S/N-0130 PSV-2F013S	1982	REPLACED	N

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-24-86
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 (Address) — Sheet 4 of 7
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O. BOX 467, BERWICK, PA. 18603 (Address) — WA-V63192, V63248 (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 RELIEF VALVES FOR VESSEL, 2-62A, CLE.
5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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	CROSBY VALVE & GAGE CO.	N93185-36-0142	N/A	S/N-0130 PSV-2F013S	1985	REPLACEMENT	N
7 INLET STUDS	CROSBY VALVE & GAGE CO.	N93216-TRACE BW25	N/A	S/N-0130 PSV-2F013S	1982	REPLACED	N
7 INLET STUDS	CROSBY VALVE & GAGE CO.	HT. NO. 97668	N/A	S/N-0130 PSV-2F013S	1985	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-36-0124	N/A	S/N-0132 PSV-2F013J	1981	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0016	N/A	S/N-0132 PSV-2F013J	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-36-0128	N/A	S/N-0132 PSV-2F013J	1981	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-33-0045	N/A	S/N-0132 PSV-2F013J	1986	REPLACEMENT	N
6 INLET STUDS	CROSBY VALVE & GAGE CO.	N93216-TRACE BW25	N/A	S/N-0132 PSV-2F013J	1981	REPLACED	N
6 INLET STUDS	CROSBY VALVE & GAGE CO.	HT. NO. 97668	N/A	S/N-0132 PSV-2F013J	1985	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-36-0121	N/A	S/N-0129 PSV-2F013C	1982	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0018	N/A	S/N-0129 PSV-2F013C	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-35-0125	N/A	S/N-0129 PSV-2F013C	1982	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-36-0132	N/A	S/N-0129 PSV-2F013C	1985	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-36-0120	N/A	S/N-0128 PSV-2F013A	1982	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0015	N/A	S/N-0128 PSV-2F013A	1986	REPLACEMENT	N

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-24-86
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 (Address) — Sheet 5 of 7

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O. BOX 467, BERWICK, PA. 18603 (Address) — WA-V63192, V63248 (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 RELIEF VALVES FOR VESSEL, 2-62A, CL. I.

5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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	CROSBY VALVE & GAGE CO.	N93185-35-0119	N/A	S/N-0128 PSV-2F013A	1982	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-36-0146	N/A	S/N-0128 PSV-2F013A	1985	REPLACEMENT	N
4 INLET STUDS	CROSBY VALVE & GAGE CO.	N93216-TRACE BW25	N/A	S/N-0128 PSV-2F013A	1982	REPLACED	N
4 INLET STUDS	CROSBY VALVE & GAGE CO.	HT. NO. 97668	N/A	S/N-0128 PSV-2F013A	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO	N93185-33-0056	N/A	S/N-0034 PSV-2F013G	1980	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-36-0147	N/A	S/N-0034 PSV-2F013G	1986	REPLACEMENT	N
3 INLET STUDS	CROSBY VALVE & GAGE CO	N93216-0397 THRU 0408	N/A	S/N-0034 PSV-2F013G	1980	REPLACED	N
3 INLET STUDS	CROSBY VALVE & GAGE CO.	HT. NO. 97668	N/A	S/N-0034 PSV-2F013G	1985	REPLACEMENT	N
1. MSRV	P.P.&L	N63790-00-0023	N/A	PSV-2F013P	1980	REPLACEMENT	YES
1. MSRV	CROSBY VALVE & GAGE CO.	N63790-00-0023	N/A	PSV-SPARE	1980	REPLACED	YES
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0096	N/A	S/N-0086 PSV-2F013D	1981	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0010	N/A	S/N-0086 PSV-2F013D	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-35-0107	N/A	S/N-0086 PSV-2F013D	1981	REPLACED	N
DISC	CROSBY VALVE & GAGE CO	N93185-33-0050	N/A	S/N-0086 PSV-2F013D	1986	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO	N93184-32-0037	N/A	S/N-0029 PSV-2F013F	1981	REPLACED	N

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

1. Owner PENNSYLVANIA POWER AND LIGHT (Name) — Date 11-24-86
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 (Address) — Sheet 6 of 7.

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
P.O. BOX 467, BERWICK, PA. 18603 (Address) — WA-V63192, V63248 (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 RELIEF VALVES FOR VESSEL, 2-62A, CLI.

5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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)
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0011	N/A	S/N-0029 PSV-2F013F	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-36-0134	N/A	S/N-0029 PSV-2F013F	1981	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-33-0036	N/A	S/N-0029 PSV-2F013F	1986	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-35-0103	N/A	S/N-0093 PSV-2F013N	1981	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO	N93184-34-0014	N/A	S/N-0093 PSV-2F013N	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-35-0117	N/A	S/N-0093 PSV-2F013N	1981	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-33-0028	N/A	S/N-0093 PSV-2F013N	1986	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO	N93184-35-0101	N/A	S/N-0091 PSV-2F013L	1981	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0012	N/A	S/N-0091 PSV-2F013L	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-35-0112	N/A	S/N-0091 PSV-2F013L	1981	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-33-0049	N/A	S/N-0091 PSV-2F013L	1986	REPLACEMENT	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0091	N/A	S/N-0112 PSV-2F013B	1981	REPLACED	N
NOZZLE	CROSBY VALVE & GAGE CO.	N93184-34-0008	N/A	S/N-0112 PSV-2F013B	1986	REPLACEMENT	N
DISC	CROSBY VALVE & GAGE CO.	N93185-35-0102	N/A	S/N-0112 PSV-2F013B	1981	REPLACED	N
DISC	CROSBY VALVE & GAGE CO.	N93185-33-0025	N/A	S/N-0112 PSV-2F013B	1986	REPLACEMENT	N

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) Date 11-24-86
2 NORTH 9TH. ST. ALLENTOWN, PA - 18101 (Address) Sheet 7 of 7
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) Unit 2
P.O. BOX 467, BERWICK, PA. 18603 (Address) W.A - V63192, V63248 (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 RELIEF VALVES FOR VESSEL. 2-62A, CL I.
5. (a) Applicable Construction Code ASME III 19 71 Edition, NONE Addenda, 1567, 1711 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)
INLET STUDS	CROSBY VALVE & GAGE CO.	N93216 - TRACEABILITY	N/A	S/N-0112 PSV-2F013B	1981	REPLACED	N
INLET STUDS	CROSBY VALVE & GAGE CO.	HT. NO. 97668	N/A	S/N-0112 PSV-2F013B	1985	REPLACEMENT	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI Page 220 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
   Two North Ninth St., Allentown, PA (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 # V63893 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Vessel Flange Leakoff, System 262B, Class 1
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 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)
Mechanical Shock	Pacific Scientific	29005	N/A	SP-DCA-201-H5003	N/A	Replacement	No
Mechanical Shock	Pacific Scientific	23613	N/A	SP-DCA-201-H5003	N/A	Replaced	No

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 (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 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 22, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec. 2 19 86

(12/82)

FORM NIS-2 OWNER'S 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 (Address)
   Date September 25, 1986
   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# V63892 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light 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 Vessel to 2C005, System 262C, Class 1
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 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)
Mechanical Shock	Pacific Scientific	28772	N/A	SP-DCA-237-H5015	N/A	Replace-ment	No
MECHANICAL Shock	PACIFIC SCIENTIFIC	24394	N/A	SP-DCA-237-H5015	N/A	REPLACED	NO

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Jr Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP. 11, 1986 to OCT. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date DEC 2 1986

(12/82)

264A-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 224 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date September 25, 1986
   Two North Ninth St., Allentown, PA (Address) — Sheet 1 of ~~1~~ 2 — W.B.T. 11/6/86
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
   P.O. Box 467, Berwick, PA 18603 (Address) — E&S Const./WA# See Below (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Rx Recirc A Loop Bulk, System 264A, 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 19 80 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)	WA#
Mechanical Shock	Pacific Scientific	12624	N/A	RWS-200-H11	N/A	Replace-ment	No	V6389
Mechanical Shock	Pacific Scientific	01637	N/A	RWS-200-H46	N/A	Replace-ment	No	V6388
Mechanical Shock	Pacific Scientific	18348	N/A	SP-DCA-202-H2602	N/A	Replace-ment	No	V6389
Mechanical Shock	Pacific Scientific	28928	N/A	SP-DCA-218-H5014	N/A	Replace-ment	No	V6389
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	07382	N/A	RWS-200-H11	N/A	REPLACED	NO	

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None [X]

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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. A. Blakeslee Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period Aug. 20, 1986 to Oct. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 2 1986

(12/82)

1. Owner PENNSYLVANIA POWER & LIGHT CO. (Name) — Date SEPTEMBER 25, 1986

TWO NORTH NINTH ST., ALLENTOWN, PA 18101 (Address) — Sheet 2 of 2

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2

P.O. BOX 467, BERWICK, PA 18603 (Address) — E & S CONST. W/O # V63899, V63888, V63890, V63891 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NONE

(Address) — Authorization No. N/A

Expiration Date N/A

4. Identification of System RX RECIRC A LOOP BWK, SYSTEM 264A, CLASS I

5. (a) Applicable Construction Code ASME III 1971 Edition, THRU W'72 Addenda, N/A 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)
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	00545	N/A	RSS-200-H46	N/A	REPLACED	NO
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	21549	N/A	SP-DCA-202-H2602	N/A	REPLACED	NO
MECHANICAL SHOCK	PACIFIC SCIENTIFIC	24366	N/A	SP-DCA-218-H5014	N/A	REPLACED	NO

264B-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/25/85
   Two No 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) — W.A. V-43741 (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 Reactor Recirculation System 64B-Class 1.
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N/A, 1516-1, 1525-1 CB1-2-86 Code Case.
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 / Summer '78.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Rx Recirc Discharge Valve	Lunkenheimer	71-6E-49998-33	N/A	HV-243F031B	1975	Repaired	Yes

7. Description of Work Cut and reweldad bonnet vent line to facilitate valve stem inspection.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1250 psi Test Temp. 534 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 Thomas M. [illegible] Date Jan 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JULY 31, 1984 to AUG. 3, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 JAN. 3, 19 86

(12/82)

8 5 2 2 1 1 5 0 2

264B-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Company (Name) — Date 3-6-85
2 N. 9th 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) — Work Authorization V43744 (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 Reactor Recirculation, 264-B.1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, 1516-1, 1525-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter 81 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)
Rx Recirc. Discharge Valve	Luken-Heimer	71-GE 49498-33	N/A	HV243-F031B	1975	Repaired	Yes

7. Description of Work Cut and Reweld Bonnet Vent Line

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1018 psi Test Temp. 194 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Superintendent of Plant Date January 7, 19 86

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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period NOV. 7, 1984 to DEC. 17, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 JAN. 14 19 86

(12/82)

8 5 2 2 1 1 5 7

264B-I

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light, Co. (Name) — Date 1/2/86
2 N. 4th 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) — W.A. V-44577 (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 Reactor Recirculation - System 64B - Class 1.
5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer 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)
Reactor Recirc Small Pipe Hanger	Bechtel	N/A	N/A	SP-PCA-202-X14	1983	Repaired	Yes

7. Description of Work Reworked Hanger to eliminate thermal interference
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ NONE
Other ☐ Pressure ~~1025~~ psig Test Temp. ~~535~~ °F
J Bogner 1/2/86 J Bogner 1/2/86

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Superintendent of Plant Date January 7, 1986

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period DEC 6, 1984 to DEC 18, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 14 1986

(12/82)

8 5 2 2 1 1 6 0 5

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

Page 233 of 288

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 Y60048 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System Reactor Recirculation 2-64B-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, NA 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)
Pipe Hanger	Bechtel	RWS-200-1427	N/A	N/A	1983	Repaired	Yes ~~No~~ 23-26

7. Description of Work Remove Hanger clamp and rear bracket of (2) #35 snubbers and Reweld after Insp.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ NONE
Other ☐ Pressure _____ psi. Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N/P

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repaired (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 November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MA have inspected the components described in this Owner's Report during the period AUG. 30, 1986 to SEP. 25, 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
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEM NB7980 PA2204 NIBS 15
National Board, State, Province, and Endorsements

Date Nov. 12 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co (Name) — Date 11-5-86
2 North 9th 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 V63048 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System 2-64A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, W'80 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)
MAIN DISC	ARMCO INC	N/A	N/A	SV-22374	1982	Replaced	Y
MAIN DISC	Target Rock	1537	N/A	SV-22374	1986	Replacement	Y
Pipe Hanger	Bechtel	SP-DCB-225-H5001	N/A	N/A	1983	Repaired	No

7. Description of Work Disassemble SP-DCB-225-H5001, Rework valve internals and weld bonnet to bro
Reinstall Hanger

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period JULY 14, 1986 to OCT 26, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 19 86

(12/82)

264D-II

FORM NIS-2 OWNER'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 1/20/86
   TWO NORTH 9TH 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 U-33709 (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 REACTOR RECIRCULATION - SYSTEM 64D - CLASS 2
5. (a) Applicable Construction Code ASME III 19 74 Edition, W'74 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/W'80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board - No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RECIRC. SEAL SUPPLY CHECK VALVE	BORG WARNER	11693	N/A	243F013B	1976	REPAIRED	YES
"	BORG WARNER	11685	N/A	243F013A	1976	REPAIRED	YES

7. Description of Work SEAL WELD BODY TO BONNET
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure 1500 psi Test Temp. 80 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (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 January 22, 1986
Owner or Owner's Designee, Title Plant Superintendent

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JUN. 23, 1983 to JUL. 7, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date FEB. 12 1986

(12/82)

8 6 0 2 1 1 1 5 0 0 7

272 - III

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 239 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date 1/2/86

Two No. 9th 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) — W.A. U-43144 (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 Gaseous Radwaste - System 72 - Class 3

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 / Winter '80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Offgas Recombiner	AMETEK	78329	10345	PA48378	1975	Repaired	YES

7. Description of Work Replaced two insulation studs

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ None

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (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 Thomas W. Gunn (Owner or Owner's Designee, Title) Superintendent of Plant Date January 7, 19 86

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period FEB. 9, 1984 to APR. 9, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2204 NB 7980 NIBS IS (National Board, State, Province, and Endorsements)

Date JAN. 14 19 86

(12/82)

8 5 2 1 1 6 1 9

273A-II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/30/85
   Two N. 4th 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) — W.A. U-34073 (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 Containment Atmosphere Control System 73A-Class 2
5. (a) Applicable Construction Code ASME III 19 ~~80~~ 74 Edition, Winter '74 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/ Winter '80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Cont. Atm. Samp. Iso. Valve	Target Rock	75KK-201-(35)	N/A	SV 25742B	1977	Repaired	Yes

7. Description of Work Seal weld body to bonnet
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 10 psig Test Temp. 200 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas M Cummins Jr (Owner or Owner's Designee, Title) Date 1/21/86, 19

Superintendent of Plant-Susq.

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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period SEP. 27, 1983 to OCT. 6, 1983, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2204 NIBSJ (National Board, State, Province, and Endorsements)

Date FEB. 3 19 86

(12/82)

8 5 2 2 1 1 6 2 3

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V44469 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System Cont. Atmos. Control 2-73A-II
5. (a) Applicable Construction Code ASME III 19 80 Edition, W80 Addenda, NA 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)
MAIN DISC	CARPENTER	N/A	NA	SV-25753A	1982	Replaced	Y
MAIN DISC	Target Rock	455	NA	SV-25753A	1986	Replacement	Y

7. Description of Work Remove Body To Bonnet weld, Rework Internals, Reinstall Bonnet To Body
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 Boston Mfgrs Mutual Ins. Co. of Waltham, MA. have inspected the components described in this Owner's Report during the period July 14, 1986 to Oct. 3, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-21-86
2 North 9TH 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-44472 (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 CONT. ATMOS CONTROL 273A-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_____
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Solenoid Valve	TARGET Rock	75KK -211-19	N/A	SV-25740A	1982	Replaced	Y
Solenoid Valve	TARGET Rock	75KK -211-31	N/A	SV-25740A	1983	Replacement	Y
Solenoid Valve	Target Rock	75KK -211-6	N/A	SV-25742A	1982	Replaced	Y
Solenoid Valve	TARGET Rock	75KK -201-99	N/A	SV-25742A	1980	Replacement	Y
1" Pipe	BECHTEL	N/A	N/A	SP-HCB -222-3	1983	Repaired	Y

7. Description of Work Replace VALVES WITH NEW EQUIVALENTS BY welding, ALSO build up GROUND OUT AREA BY weld AND GRIND OFF Flush
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 DATA REPORTS 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 J. R. Blakeslee Jr. Date November 24, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUN. 11, 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.

FACTORY MUTUAL SYSTEM

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

Date DEC. 2 19 86

(12/82)

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

Page 247 of

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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) — WR V44505 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System Cont. Atmos. Control 2-73A "II"

5. (a) Applicable Construction Code ASME III 19 80 Edition, W'80 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
1" Globe Valve	Carpenter	N/A	N/A	SV-25782B	1982	Repaired	Y
1" Globe Valve	Target Rock	472	N/A	SV-25782B	1986	Replacement	Y
Pipe Hanger	Bechtel	SP-HCB-227-H5017	N/A	N/A	1983	Repaired	NO

7. Description of Work Rework Valve Internals, Reweld hanger after completion of work

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 248 of

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JULY 14, 1986 to OCT. 6, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 19 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-19-86
2 North 9th 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 V63043 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System CONT. ATMOS. CONTROL 273A-II
5. (a) Applicable Construction Code BPVC III 19 ~~71~~ 80 Edition, ~~W72~~ 80 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Supply Valve	Target Rock	75KK -211-11	N/A	25746A	1982	Replaced	Y
Supply Valve	Target Rock	75KK -211-33	N/A	25746A	1983	Replacement	Y

7. Description of Work Remove welds by mechanical means, weld in new 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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks NPV-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 None

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

Signed [signature] Date December 4, 19 86
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 BOSTON MFGRS MUTUAL INS. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 15 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-19-86
   2 North 9th 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) — WIA V63044 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
   (Address) — Authorization No. NA
   Expiration Date NA
4. Identification of System CONT. ATMOS. CONTROL 273A-II
5. (a) Applicable Construction Code ASME III 19 ~~74~~ 80 AJR 12-15-86 Edition, ~~TOAK~~ WBO AJR 12-15-86 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W80 AJR 12-15-86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Supply Valve	Target Rock	75KK-211-9	N/A	25745A	1982	Replaced	Y
Supply Valve	Target Rock	75KK-211-30	N/A	25745A	1983	Replacement	Y

7. Description of Work Replace old valve with New Equivalent
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date December 4 19 86
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 BOSTON MFGRS MUTUAL INS. 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 15 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co (Name) — Date 6/12/86
   Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 1
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
   P.O. Box 467 Berwick, PA. 18603 (Address) — WA V-63233 (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 SPARE VALVES, SV25746A 2-73A class II
5. (a) Applicable Construction Code ASME III 19 80 Edition, W'80 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
MAIN DISC	TARGET ROCK	75KK-211-(11)	N/A	SV25746A	1982	REPLACED	Y
MAIN DISC	TARGET ROCK	468	N/A	SV25746A	1986	REPLACEMENT	Y

7. Description of Work Remove Body To Bonnet Seal Weld By Grinding, Rework Valve Internals
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MECRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUNE 13, 1986 to JUNE 16, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 18 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-5-86
2 North 9th 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 V63234 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
Authorization No. NA
Expiration Date NA
(Address)
4. Identification of System CONT. ATMOS. CONTROL 2-73A-II
5. (a) Applicable Construction Code ASME III 19 80 Edition, W80 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MAIN DISC.	CARPENTER TECH	N/A	N/A	SV257444	1982	Replaced	Y
MAIN DISC.	Target Rock	484	N/A	SV257444	1984	Replacement	Y

7. Description of Work Remove body to bonnet seal welds by grinding, Remove valve internals

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-3 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGR MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period JUNE 16, 1986 to OCT. 15, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date 6-17-86
   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-63235 (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 SPARE VALVE SV25745A REWORK 2-73A CLASS II
5. (a) Applicable Construction Code ASME III 19 80 Edition, W '80 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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)
MAIN DISC	TARGET Rock	75KK-211-9	N/A	SV-25745A	1982	Replaced	Y
MAIN DISC	TARGET Rock	480	N/A	SV-25745A	1986	Replacement	Y

7. Description of Work Remove Body To Bonnet Seal Weld By Grinding, Rework Valve Internal
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 8½ in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) * This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks Form N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS MUTUAL INS CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUNE 13, 1986 to JUNE 16, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-20-86
2 North 9th 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) — W.O. V63796 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System CONT. ATMOS. CONTROL 2-73A - II
5. (a) Applicable Construction Code ASME III 19 80 Edition, W80 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/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)
Solenoid Valve	Target Rock	75KK-211 -26	N/A	SV25782A	1982	Replaced	Y
Solenoid Valve	Target Rock	75KK-211 -9	N/A	SV25782A	1982	Replacement	Y
Solenoid Valve	Target Rock	75KK-211 -28	N/A	SV25782A	1982	Replaced	Y
Solenoid Valve	Target Rock	75KK-211 -11	N/A	SV25782A	1982	Replacement	Y

7. Description of Work Replace DEFECTIVE Valves with Rebuilt Replacements

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Page 260 of 288

FORM NIS-2 (Back)

9. Remarks DATA REPORTS FOR 25KK-211-9 AND 25KK-211-11
Applicable Manufacturer's Data Reports to be attached
ARE ~~attached to~~ Attached IN ORIGINAL NIS Package
A/n 11-23-86

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 A Blakesley Date November 24, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period JUNE 11, 1986 to JUNE 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.

FACTORY MUTUAL SYSTEM

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

Date DEC. 3 1986

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner PENNSYLVANIA Power AND Light Co. (Name) — Date 11-5-86
2 North 9th 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 V63818 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA
4. Identification of System CONT. ATMOS. CONTROL 2-73A-II
5. (a) Applicable Construction Code ASME-III 1974 Edition, W74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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)
MAIN DISC	CARPENTER	N/A	N/A	SV-25740A	1982	Replaced	Y
MAIN DISC	Target Rock	1484	N/A	SV-25740A	1980	Replacement	Y

7. Description of Work Remove body to bonnet weld, Rework INTERNALS, Reinstall bonnet AND Tack weld

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-3 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUNE 16 1986 to OCT. 9, 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 Commissions NB7980 PA2204 HIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 11-5-86
2 North 9th 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 V63819 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp N/A
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System CONT. ATMOS. CONTROL 2-73A-II

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 1980 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)
MAIN DISC	CARPENTER TECH	N/A	N/A	SV-25742A	1982	Replaced	Y
MAIN DISC	TARGET ROCK	415	N/A	SV-25742A	1980	Replacement	Y

7. Description of Work Remove body to bonnet weld, Rework INTERNALS, Reinstall bonnet AND Tack weld.

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM MA have inspected the components described in this Owner's Report during the period JUN. 16, 1986 to SEP. 29, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th ST., Allentown Pa 18603 (Address) — Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa 18603 (Address) — WIA V63820 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
Authorization No. NA
(Address) — Expiration Date NA
4. Identification of System Cont. Atmos. Control 2-73A-II
5. (a) Applicable Construction Code Asme III 1980 Edition, W81 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MAIN Disc	CARPENTER	NA	NA	SV-25770A	1982	Replaced	Y
MAIN Disc	Target Rock	535	NA	SV-25780A	1980	Replacement	Y

7. Description of Work Remove body to bonnet weld, Rework Internals, Reinstall Bonnet and Tack weld
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS MUTUAL INS CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUNE 16, 1986 to OCT. 9, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V63821 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Owner (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System Cont. Atmos. Control 2-73A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, W81 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MAIN DISC	CARPENTER	N/A	NA	SV-25782A	1982	Replaced	Y
MAIN DISC	Target Rock	426	NA	SV-25782A	1980	Replacement	Y

7. Description of Work Remove body to bonnet weld, Rework internals, Reinstall Bonnet and Tack weld.

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS. MUTUAL INS. Co of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUNE 16, 1986 to OCT. 9, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th 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 V64508 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
(Address) — Authorization No. NA
Expiration Date NA

4. Identification of System Containment Atmosphere Control 2-73A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, W80 Addenda, NA 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)
MAIN DISC	CARPENTER	N/A	N/A	SV-2575CA	1982	Replaced	Y
MAIN DISC	Target Rock	289A	N/A	SV-2575CA	1986	Replacement	Y

7. Description of Work Disassemble valve and replace main disc, reassemble and tack weld bonnet to body.

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA have inspected the components described in this Owner's Report during the period SEP. 15, 1986 to OCT. 3, 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 Nov. 18 19 86

(12/82)

FORM NIS-2 OWNER'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 September 25, 1986
Two North Ninth St., Allentown, PA (Address) — Sheet 1 of 2 (11-5-86)
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467, Berwick, PA 18603 (Address) — E&S Const./WA #See Below (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None
Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Main Steam, System 283, Class 2
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 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)	WA#
Mechanical Shock	Pacific Scientific	12625	N/A	DBB-201-H4	N/A	Replace-ment	No	V6390
Mechanical Shock	Pacific Scientific	14771	N/A	DBB-204-H7	N/A	Replace-ment	No	V6447
Mechanical Shock	Pacific Scientific	28796	N/A	SP-DBB-208-H13	N/A	Replace-ment	No	V6401
Mechanical Shock	Pacific Scientific	2759	N/A	DBB-201-H4	N/A	Replaced	No	
Mechanical Shock	Pacific Scientific	1133	N/A	DBB-204-H7	N/A	Replaced	No	

7. Description of Work Replace existing snubber with functionally tested replacement
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F None ☒

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

FORM NIS-2 (Back)

9. Remarks 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 J A Blakeslee Date 11-25-86, 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 Boston Mfgrs., Mutual Ins.Co of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period SEP 12, 1986 to OCT. 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.

William R. Rogers III Commissions Factory Mutual System PA 2204 NB7980 NIBS IS

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

Date Dec 2 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date September 25, 1986
2 North 9th St., Allentown Pa 18101 (Address) — Sheet 2 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa 18603 (Address) — E&S Const. WA's V63906, V64474, V64011 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by OWNER (Name) — Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA
(Address)
4. Identification of System Main Steam 2-83-III
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 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)
Mechanical Shock	Pacific Scientific	21067	N/A	SP-DBB-208-H13	N/A	Replaced	No

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name)
2 North 9th ST, ALLENTOWN PA. 18101 (Address)

Date 12-3-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name)
P.O Box 467 BERWICK PA. 18603 (Address)

Unit 2
WA V44421 (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 - II

5. (a) Applicable Construction Code ASME III 19 ~~72~~ 71 Edition, W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19~~80~~ 83 W81 RGA 12-3-86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Level SWITCH	MERCOID	SP-DBB-204 -2 Item 74	N/A	LSHH -20112-C	1983	Replaced	N
DRIP LEG Level SWITCH	MERCOID	SP-DBB-204 -2 Item 74	N/A	LSHH -20112-C	1985	Replacement	N

7. Description of Work REMOVED DAMAGED SWITCH AND WELDED IN NEW SWITCH

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 935 psi Test Temp. 540 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (repair or 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] Owner or Owner's Designee, Title Supt. of Plant Date December 4, 19 86

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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period JUNE 30, 1986 to OCT. 24, 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 Inspector's Signature Commissions NB7980 PA2204 NIBS IS National Board, State, Province, and Endorsements

Date Dec. 15 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 11-5-86
2 North 9th St., Allentown, Pa. 18101 (Address) — Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name) — Unit 2, WAV63630
P.O. Box 467 Berwick Pa. 18603 (Address) — N/A V63630 (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 2-83A-II

5. (a) Applicable Construction Code Asme III 1974 Edition, W74 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 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/Hammet	A9	N/A	3RV-LSH-20112A	1977	Replaced	Y
Stem Assembly	Yarway	D7E	N/A	3RV-LSH-20112A	1983	Replacement	Y

7. Description of Work Rework Valve Internals

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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N-2 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 NONE

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

Signed [signature] Date November 7, 19 86
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 BOSTON MTGES MUTUAL INS CO of WALTHAM MA have inspected the components described in this Owner's Report during the period OCT. 2, 1986 to OCT. 6, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co (Name) — Date 10-8-86

2 North 9th St., Allentown PA 18101 (Address) — Sheet 1 of 2

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

P.O. Box 467 Berwick PA 18603 (Address) — WA Y60049 (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 Lines - Steam Tunnel 2-83A-II

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 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)
1½" Pipe weld	Bechtel	SP DBB 229-1 FW16	N/A	N/A	1983	repaired	Y
24" Pipe weld	Bechtel	DBB 201-1 FW14	N/A	N/A	1983	repaired	Y
24" Pipe weld	Bechtel	DBB 202-1 FW14	N/A	N/A	1983	repaired	Y
24" Pipe weld	Bechtel	DBB 204-1 FW 20	N/A	N/A	1983	repaired	Y
6" Pipe weld	Bechtel	DBB 229-1 FW 10	N/A	N/A	1983	repaired	Y

7. Description of Work Repair Hanger using Hilti Bolts Remove ISI INDICATIONS by mechanical means

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supt. of Plant Date November 7, 19 86

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 BOSTON MFGR. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 20 1986 to SEP. 22, 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 Inspector's Signature Commissions NB7980 · PA2204 NIBS IS National Board, State, Province, and Endorsements

Date NOV. 10 19 86

(12/82)

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

1. Owner Pennsylvania Power and Light Co. (Name) — Date 10-8-86
2 North 9th St., Allentown PA. 17101 (Address) — Sheet 2 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
P.O. Box 467 Berwick Pa. 18603 (Address) — WA Y60049 (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 LINES - STEAM TUNNEL 2-83A-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pipe Hanger	Bechtel	DBB-229-1-H1	N/A	N/A	1983	Repaired	Y

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co (Name) — Date 12/31/85
   Two No. 9th St., Allentown, PA 19101 (Address) — Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
   P.O. Box 467, Berwick, PA 18603 (Address) — W.A. V-44366 (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 Isolation Valve - System 83 Class 3
5. (a) Applicable Construction Code ASME III 19 72 Edition, Winter '72 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/Winter 80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Air Supply Line to "B" MSIV Actuator	Bechtel	N/A	N/A	SP-HCC-236-H5017	N/A	Repaired	N/A
Air Supply Line to "A" MSIV Actuator	Bechtel	N/A	N/A	SP-HCC-236-H5018 & 5019	N/A	Repaired	N/A

7. Description of Work Removal of Hanger Clips to facilitate valve rework
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1000 psig Test Temp. 545 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

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 Thomas M Cronin Jr Date Jan 2, 19 86
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period DEC. 11, 1984 to DEC. 13, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB 7980 PA 2204 NI R S IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 3 1986

(12/82)

8 5 2 2 1 1 6 3 1

283B-III

FORM NIS-2 OWNER'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 1/2/86

2 No. 9th 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) W.A. V44365 (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 Isolation Valve - System 83B - Class 3

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)
Air Supply line to "D" MSIV Actuator	Bechtel	N/A	N/A	SP-HCC-236-4-2	N/A	Repaired	N/A
Air Supply line to "D" MSIV Actuator	Bechtel	N/A	N/A	SP-HCC-236-HS015, S018, S021	N/A	Repaired	N/A

7. Description of Work Removed Hanger Clips and Blended Grind Mark on Pipe

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 90 psig Test Temp. 110 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (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 Thomas M Cannon (Owner or Owner's Designee, Title) Date 1-2-, 19 86

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 BOSTON MFGRS MUTUAL INS. CO of WALTHAM MASS. have inspected the components described in this Owner's Report during the period DEC. 11, 1984 to DEC. 14, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 3 19 86

(12/82)

8 5 0 2 2 1 1 6 3 5

283E-III

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

Page 285 of 288

1. Owner Pennsylvania Power & Light Co. (Name) — Date 1/2/86
2 N. 9th 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) — Work Authorization U-34571 (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 Isolation Valve - System 83E - CLASS 3.
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 '80.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV Accum. DRN. VLV., 1"	BORGWN	16081	N/A	2-41-006F	1976	Repaired	YES

7. Description of Work Seal weld body to ~~Body~~ BONNET. JCB 1/2/86
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 90 psi Test Temp. 64 °F

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

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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 (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 Thomas M Grimmer Jr. (Owner or Owner's Designee, Title) Superintendent of Plant Date Jan 2, 19 86

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 BOSTON MFGES. MUTUAL INS. CO. of WALTHAM MASS have inspected the components described in this Owner's Report during the period MAR. 2, 1984 to MAR. 16, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 JAN. 3 19 86

(12/82)

8 5 0 2 2 1 1 6 4 3

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

1. Owner PENNSYLVANIA POWER AND LIGHT CO. (Name) — Date 1-9-87
2 NORTH 9TH 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-V61155 (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 LEAKAGE CONTROL 2-83H-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 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)
LARGE HANGER	BECHTEL	H66-248-H52	N/A	N/A	1983	REPAIRED	Y

7. Description of Work REMOVED ITEM #3, RE-INSTALLED AND WELDED.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ NONE
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 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 1-9, 19 87
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 BOSTON MFGRS MUTUAL INS CO of WALTHAM, MA. have inspected the components described in this Owner's Report during the period OCT. 21, 1986 to OCT. 22, 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 Commissions NB7990 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 13 19 87

(12/82)

APPENDIX D.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. (Name)
   Two North Ninth St., Allentown, PA (Address)
   Date 10/14/86
   Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name)
   P.O. Box 467, Berwick, PA (Address)
   Unit II
   WA #V63371 (Repair Organization P.O. No., Job No., etc.)

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

4. Identification of System RHR Service Water S/U 216-A

5. (a) Applicable Construction Code Section ~~IV~~ III 19 71 Edition, Winter '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)
Snubber Rear Bracket	ITT GRINNEL	N/A	N/A	HRC-212 Hanger #15	1983	Replaced	YES

7. Description of Work Replaced rear bracket due to elongation of rear bracket eyelets

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ NONE ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed J A Blakeslee Jr Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period AUG. 27, 1986 to SEP. 27, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 3 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date 10/9/1986

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

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 None

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

4. Identification of System RHR Service Water SUS 216A

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 thru W '81 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)
Pipe Support	Bechtel	N/A	N/A	SP-HRC-235-H-9002	1983	Repaired	Yes
Small Pipe Assembly	Bechtel	N/A	N/A	SP-HRC-235-1	1983	Repaired	Yes

7. Description of Work Piping and support modification to facilitate RHR Heat Exchanger Inspection

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 198 psig Test Temp. 60-95 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* CWO C-66464/PMR 86-8006; CWO C-66486/PMR 86-8007

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/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 A Blokesley Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period Aug. 1, 1986 to Sep. 26, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 19 86

(12/82)

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

Page 5 of 100

1. Owner Pennsylvania Power & Light Co. (Name)
Two N. 9th St., Allentown, PA 18101 (Address)

Date 3/25/85

Sheet 1 of 17

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 St., Allentown, PA 18101 (Address)

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

4. Identification of System Reactor Bldg HVAC, HPCI Room Cooling (System 234E) Cl. 3

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter, '72 Addenda, N-316 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)
2" Globe Vlv	Henry Vogt	5-215095	None	2-11-139	1984	Replace-ment	Yes
2" Globe Vlv	Henry Vogt	10-215095	None	2-11-138	1984	Replace-ment	Yes
1" Globe Vlv	Yarway	5601	None	2-11-142	1976	Replace-ment	Yes
1" Globe Vlv	Yarway	6551	None	2-11-143	1976	Replace-ment	Yes
1" Globe Vlv	Yarway	6437	None	2-11-146	1976	Replace-ment	Yes

7. Description of Work Change water supply to/from 2V-209A to be off ESW Loop A.
Change water supply to/from 2V-208A to be off ESW Loop B.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 200 psi Test Temp. 70 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* Design Package: PMR 84-3101
Work/Installation Packages: CWO's C-55036, C-55037, C-55038, C-55041, C055124, C-55125 and C-55126.

FORM NIS-2 (Back)

9. Remarks See attached Manufacturers' Date Reports for two each 2" globe valves and four each 1" globe valves.
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 None

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

Signed [illegible] Date 4-28-85, 19
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM MASS. have inspected the components described in this Owner's Report during the period JAN. 11, 1985 to FEB. 16, 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. Rogers III
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEM NB7980 PA2204 NIBS
National Board, State, Province, and Endorsements

Date 3-29 1985

(12/82)

8 5 2 2 1 1 1 7 3

1. Owner Pennsylvania Power & Light Co. (Name) Date 3/25/85

Two N. 9th St., Allentown, PA 18101 (Address) Sheet 2 of 17

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

Berwick, PA 18603 (Address) See Page 1 (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 Reactor Bldg HVAC, HPCI Room Cooling (System 234E)

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, N-316 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 (continued)

Name of 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 Vlv	Yarway	5551	None	2-11-147	1976	Replace-ment	Yes
Sm. Pipe Sub Assembly	PP&L	N/A	N/A	SP-HRC-219-3	1985	Replace-ment	No
Sm. Pipe Sub Assembly	PP&L	N/A	N/A	SP-HRC-220-3	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H6	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H7	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H8	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H9	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H10	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H11	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H12	1985	Replace-ment	No

1. Owner Pennsylvania Power & Light Co. (Name) Date 3/25/85

Two N. 9th St., Allentown, PA 18101 (Address) Sheet 3 of 17

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

Berwick, PA 18603 (Address) See Page 1 (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 Reactor Bldg HVAC, HPCI Room Cooling (System 234E)

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter, '72 Addenda, N-316 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 (continued)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H13	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H14	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H15	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H16	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H17	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H18	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H19	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H20	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H7	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H8	1985	Replace-ment	No

1. Owner Pennsylvania Power & Light Co. (Name) Date 3/25/85

Two N. 9th St., Allentown, PA 18101 (Address) Sheet 4 of 17

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

Berwick, PA 18603 (Address) See Page 1 (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 Reactor Bldg HVAC, HPCI Room Cooling(System 234E)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter, '72 Addenda, N-316 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 (continued)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H9	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H10	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H11	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H12	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H13	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H14	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H15	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H16	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H17	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H18	1985	Replace-ment	No

1. Owner Pennsylvania Power & Light Co. (Name) Date 3/25/85

Two N. 9th St., Allentown, PA 18101 (Address) Sheet 5 of 17

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

Berwick, PA 18603 (Address) See Page 1 (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 Reactor Bldg HVAC, HPCI Room Cooling (System 234E)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter, '72 Addenda, N-316 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 (continued)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H19	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H20	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H21	1985	Replacement	No	
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HRC-219-1	1983	Repaired Replaced	Yes	See Note 1
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HRC-219-2	1983	Repaired Replaced	Yes	See Note 2
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HRC-219-5	1983	Repaired	Yes	See Note 3
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HRC-220-1	1983	Repaired Replaced	Yes	See Note 4
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HRC-220-2	1983	Repaired Replaced	Yes	See Note 5
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HRC-220-5	1983	Repaired	Yes	See Note 6

1. Owner Pennsylvania Power & Light Co. (Name) Date 3/25/85

Two N. 9th St., Allentown, PA 18101 (Address) Sheet 6 of 17

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

Berwick, PA 18603 (Address) See Page 1 (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 Reactor Bldg HVAC, HPCI Room Cooling (System 234E)

5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, N-316 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 (continued)

NOTE 1: a) Upper portion originally N-5 code stamped as System 234F is now System 234E. ("Repaired").

b) Middle (deleted) portion is scrapped and "Replaced".

c) Lower portion is now shown on new iso SP-HRC-219-6 and remains on System 234F. Modification is a "Repair" on iso SP-HRC-219-6.

NOTE 2: a) Upper portion originally N-5 code stamped as System 234E is now System 234F ("Repaired")

b) Middle (deleted) portion is scrapped and "Replaced".

c) Lower portion is now shown on new iso SP-HRC-219-5 and remains on System 234E. Modification is a "Repair" on iso SP-HRC-219-5.

NOTE 3: New iso, originally installed under iso SP-HRC-219-2.

NOTE 4: a) Upper portion originally N-5 code stamped as System 234F is now System 234E ("Repaired")

b) Middle (deleted) portion is scrapped and "Replaced"

c) Lower portion is now shown on new iso SP-HRC-220-5 and remains on System 234F. Modification is a "Repair" on iso SP-HRC-220-5.

NOTE 5: a) Upper portion originally N-5 code stamped as System 234E is now System 234F ("Repaired")

b) Middle portion (now deleted) is scrapped and "Replaced".

c) Lower Portion is now shown on new iso SP-HRC-220-6 and remains on System 234E. Modification is a "Repair" on iso SP-HRC-220-6.

NOTE 6: New iso originally installed under iso SP-HRC-220-1.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power & Light Co. (Name) — Date 3/25/85
   Two N. 9th Street, Allentown, PA 18101 (Address) — Sheet 1 of 17
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 Bldg. HVAC, RCIC Room Cooling (System 234F) Cl.3
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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" Globe Valve	Henry Vogt	8-215095	None	2-11-140	1984	Replace-ment	Yes
2" Globe Valve	Henry Vogt	13-215095	None	2-11-141	1984	Replace-ment	Yes
1" Globe Valve	Yarway	6564	None	2-11-144	1976	Replace-ment	Yes
1" Globe Valve	Yarway	6226	None	2-11-145	1976	Replace-ment	Yes
1" Globe Valve	Yarway	6463	None	2-11-148	1976	Replace-ment	Yes

7. Description of Work Change water supply to/from 2V-209A to be off ESW Loop A.
   Change water supply to/from 2V-208A to be off ESW Loop B.
8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
   Other [ ] Pressure 200 psi Test Temp. 70 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

*Design Package: PMR 84-3101
Work/Installation Package: CWO's C-55038, C-55039, C-55040, C-55041, C-55123, C-55125, C-55126

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FORM NIS-2 (Back)

9. Remarks See attached Manufacturer's Data Report for each globe valve.

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 None

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

Signed KC Owner or Owner's Designee, Title Date 3-28-85, 19

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JAN. 11, 1985 to FEB. 16, 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. Rogers III Inspector's Signature

Commissions FACTORY MUTUAL SYSTEM NB7980 PA2204 NIBS National Board, State, Province, and Endorsements

Date 3-29 19 85

(12/82)

8 6 2 5 2 1 1 2 0 7

SUPPLEMENTAL SHEET

1. Owner Pennsylvania Power & Light Co. (Name)
Two N. 9th Street, Allentown, PA 18101 (Address)

Date 3/25/85

Sheet 2 of 17

2. Plant Susquehanna Steam Electric Station (Name)
Berwick, PA 18603 (Address)

Unit 2

See Page 1
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 Bldg. HVAC, RCIC Room Cooling (System 234F)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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)
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H22	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H24	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H25	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H26	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H27	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H28	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H29	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H30	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H31	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H32	1985	Replace-ment	No

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SUPPLEMENTAL SHEET

1. Owner Pennsylvania Power & Light Co. (Name)
Two N. 9th Street, Allentown, PA 18101 (Address)
Date 3/25/85
Sheet 3 of 17

2. Plant Susquehanna Steam Electric Station (Name)
Berwick, PA 18603 (Address)
Unit 2
See Page 1 (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 Bldg. HVAC, RCIC Room Cooling (System 234F)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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)	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H33	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H34	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H35	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H36	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H37	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H38	1985	Replacement	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-220-H39	1985	Replacement	No	
Sm. Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-219-1	1983	Repaired Replaced	Yes	See Note
Sm. Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-219-2	1983	Repaired Replaced	Yes	See Note
Sm. Pipe Sub-Assembly	PP&L	N/A	N/A	SP-HRC-219-4	1985	Replacement	No	

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SUPPLEMENTAL SHEET

1. Owner Pennsylvania Power & Light Co. (Name) — Date 3/25/85

Two N. 9th Street, Allentown, PA 18101 (Address) — Sheet 4 of 17

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

Berwick, PA 18603 (Address) — See Page 1 (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 Bldg. HVAC, RCIC Room Cooling (System 234F)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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)	
Sm. Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-219-6	1983	Repaired	Yes	See Note
Sm. Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-220-1	1983	Repaired Replaced	Yes	See Note
Sm. Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-220-2	1983	Repaired Replaced	Yes	See Note
Sm. Pipe Sub-Assembly	PP&L	N/A	N/A	SP-HRC-220-4	1985	Replace-ment	No	
Sm. Pipe Sub-Assembly	Bechtel	N/A	N/A	SP-HRC-220-6	1983	Repaired	Yes	See Note
1" Globe Valve	Yarway	6565	None	2-11-149	1976	Replace-ment	Yes	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H22	1985	Replace-ment	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H23	1985	Replace-ment	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H24	1985	Replace-ment	No	
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H25	1985	Replace-ment	No	

8 5 2 5 1 1 2 1 0

SUPPLEMENTAL SHEET

1. Owner Pennsylvania Power & Light Co. (Name) — Date 3/25/85

Two N. 9th Street, Allentown, PA 18101 (Address) — Sheet 5 of 17

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

Berwick, PA 18603 (Address) — See Page 1 (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 Bldg. HVAC, RCIC Room Cooling (System 234F)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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)
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H26	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H27	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H28	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H29	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H30	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H31	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H32	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H33	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H34	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H35	1985	Replace-ment	No

8 5 2 2 1 1 2 1

SUPPLEMENTAL SHEET

1. Owner Pennsylvania Power & Light Co. (Name)
Two N. 9th Street, Allentown PA 18101 (Address)

Date 6/25/85

Sheet 6 of 17

2. Plant Susquehanna Steam Electric Station (Name)
Berwick, PA 18603 (Address)

Unit 2

See Page 1
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 Bldg. HVAC, RCIC Room Cooling (System 234F)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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)
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H36	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H37	1985	Replace-ment	No
Sm. Pipe Hanger	PP&L	N/A	N/A	SP-HRC-219-H38	1985	Replace-ment	No

8 5 2 1 1 2 1 2

SUPPLEMENTAL SHEET

1. Owner Pennsylvania Power & Light Co. (Name) — Date 3/25/85

Two N. 9th Street, Allentown, PA 18101 (Address) — Sheet 7 of 17

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

Berwick, PA 18603 (Address) — See Page 1 (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 Bldg. HVAC, RCIC Room Cooling (System 234F)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 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 (See sheets 3 and 4)

NOTE 1: a) Upper portion originally N5 code stamped as System 234F is now System 234E. ("REPAIRED")

b) Middle (deleted) portion is scrapped and "REPLACED".

c) Lower portion is now shown on new ISO SP-HRC-219-6 and remains on System 234F. Modification is a "REPAIR" on ISO SP-HRC-219-6.

NOTE 2: a) Upper portion originally N5 code stamped as System 234E is now System 234F ("REPAIRED").

b) Middle (deleted) portion is scrapped and "REPLACED".

c) Lower portion is now shown on new ISO SP-HRC-219-5 and remains on System 234E. Modification is a "REPAIR" on ISO SP-HRC-219-5.

NOTE 3: New ISO originally installed under ISO SP-HRC-219-1.

NOTE 4: a) Upper portion originally N5 code stamped as System 234F is now System 234E ("REPAIRED").

b) Middle (deleted) portion is scrapped and "REPLACED".

c) Lower portion is now shown on new ISO SP-HRC-220-5 and remains on System 234F. Modification is a "REPAIR" on ISO SP-HRC-220-5.

NOTE 5: a) Upper portion originally N5 code stamped as System 234E is now System 234F ("REPAIRED").

b) Middle portion (now deleted) is scrapped and "REPLACED".

c) Lower portion is now shown on new ISO SP-HRC-220-6 and remains on System 234E. Modification is a "REPAIR" on ISO SP-HRC-220-6.

NOTE 6: New ISO originally installed under ISO SP-HRC-220-1.

234 U-III

FORM NIS-2 OWNER'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 1/6/86
   TWO N. 9TH ST. ALLENTOWN, PA 18101 (Address) — Sheet 1 of 2
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION (Name) — Unit 2
   P.O. BOX 467, BERWICK, PA 18603 (Address) — CWO C-44425 / PMR 83-59 (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 RHR PUMP ROOM COOLING, 234 U. III
5. (a) Applicable Construction Code ASME III 19 74 Edition, WINTER 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)
BUTTERFLY VALVE	CONTROMATICS	85225-13-6	328	HV-21144A	1979	REPLACEMENT	YES

7. Description of Work INSTALLED BUTTERFLY VALVE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 100 psi Test Temp. 125 °F

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

FORM NIS-2 (Back)

9. Remarks ATTACHED NPV-1
Applicable Manufacturer's Data Reports to be attached
NO VALVE REPLACED, ADDITIONAL VALVE INSTALLED INTO EXISTING SYSTEM.

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 Thomas M. Cannon Jr. Date January 7, 1986
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period Nov. 19, 1984 to Nov. 27, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JAN. 20 1986

(12/82)

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

Page 22 of 100

1. Owner Pennyslvania Power & Light Co. (Name) — Date 12/04/84
Two N. 9th Street, Allentown PA. 18101 (Address) — Sheet 1 of 4

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. Ninth Street, Allentown, PA. 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Bldg. Chilled Water - (System 234U) Cl. 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 ~~81~~ 80 Winter '81 12/4/84

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification System Valve Number	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2" Globe Vlv	Henry Vogt	14-215095	NONE	2-11-136	1984	Replacement	YES
4" Motor Operated Vlv	Contromatics	85225-13-6	328	HV21144A	1979	Replacement	YES
2" Glove Vlv	Henry Vogt	6-215095	NONE	2-11-137	1984	Replacement	YES
4" Motor Operated Vlv	Contromatics	85225-13-4	326	HV21144B	1979	Replacement	YES

7. Description of Work Install two each 2" globe valves and two each 4" motor-operated valves in Reactor Bldg chilled water system as part of watterhammer prevention Mo

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 195 psi Test Temp. 60 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* Design Packages: PMR's 83-592D&E
Work Installation Packages: CWO'S C-44425, 44426, 44428, 44444, 44445 and 44446

8512-245

FORM NIS-2 (Back)

9. Remarks 1. See attached Manufacturers Data Reports for two each 2" globe valves
Applicable Manufacturer's Data Reports to be attached
and two each 4" motor operated valves.

2. Added isometric drawings SP HRC -228-6 and SP HRC-224-13.

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 H Keen Date 12-10, 19 84
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM MASS. have inspected the components described in this Owner's Report during the period NOV. 7, 1984 to NOV. 24, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 FACTORY MUTUAL SYSTEM PA. 2204 NB7980 NIBS
National Board, State, Province, and Endorsements

Date DEC. 13 19 84

(12/82)

3 3 2 2 1 1 2 4 5

FORM NIS-2 OWNER'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 5/3/85
   Two N. 9th Street, Allentown, PA 18101 (Address) — Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station (Name) — Unit #2
   Berwick, PA 18603 (Address) — CWO-C55044 (PMR 83-592G), CWO-C55045 (PMR 83-592H) (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 Building Chilled Water (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 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)
2" Vacuum Breaker	Crosby	N67795-00-0005	None	PSV21101		Replacement	Yes
2" Vacuum Breaker	Crosby	N67795-00-0006	None	PSV21102		Replacement	Yes

7. Description of Work Installed two - 2" vacuum breakers in Reactor Building Chilled Water System as part of water hammer prevention Mod.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ *CWO C55046 105psig 64°F
   Other ☐ Pressure * psi Test Temp. * °F CWO C55047 125psig 68°F

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

FORM NIS-2 (Back)

9. Remarks See attached Manufacturer's Data Report for 2" vacuum breakers

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 H Keiser Date 5-7-85, 19
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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period JAN. 15, 1985 to APRIL 15, 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III Commissions PA2204 N87980 NIBS
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 10 1985

(12/82)

FORM NIS-2 OWNER'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 October 27, 1986

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 2 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co (Name) — Type Code Symbol Stamp N/A

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

4. Identification of System Alternate Fuel Pool Cooling 235B III

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 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" 1500# CS GB Valve	Yarway	B2187	N/A	2-51-815	1980	Replace-ment	Yes
14" Pipe Assembly	PP&L	N/A	N/A	HBC-217-1	1986	Replace-ment	No
14" Pipe Assembly	Bechtel	N/A	N/A	HBC-217-1	1983	Replaced Repaired	Yes
1" Pipe Assembly	PP&L	N/A	N/A	SPHBC-217-1	1986	Replace-ment	No
14" Pipe Support	Bechtel	N/A	N/A	HBC-217-H9	1983	Replaced Repaired	Yes

7. Description of Work See Continuation Sheet No. 2

8. Tests Conducted: Hydrostatic [XX] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 76 psi Test Temp. 99.5 °F TP-249-019

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

FORM NIS-2 (Back)

9. Remarks The New Yarway Valve Serial No. B2187, Manufacturer's Data Reports Are 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 None

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

Signed J A Blakeslee Date November 12, 1986
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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period MAY 19, 1986 to JULY 24, 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 Commissions NR7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 1986

(12/82)

1. Owner Pennsylvania Power & Light Company (Name) Date October 27, 1986

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

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

P.O. Box 467, 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

Authorization No. N/A

Two North Ninth St., Allentown, PA 18101 (Address) Expiration Date N/A

4. Identification of System Alternate Fuel Pool Cooling 235B-III

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 19 80 Winter '81 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" Pipe Support	PP&L	N/A	N/A	HBC-217-H9	1986	Replacement	No

7. DESCRIPTION OF WORK (continued)

Reroute that section of the 14" pipe Fuel Pool Cooling to RHR Pump Suction Line and its supports which interfered with the RHR 17B valve replacement and the addition of a high point vent on the same line.

*REPAIR ORGANIZATION P.O. NO., JOB NO., ETC. (continued)

Design Document PMR 83-449D
Work Documents CWO C-66131 - Reroute the 14" pipe, rework support and installation of high point vent.

CWO C-66132 - Hydrostatic Test

FORM NIS-2 OWNER'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 October 31, 1986
   Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station (Name) — Unit II
   P.O. Box 467, 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 North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Feedwater (System 245A - 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 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" Manual Globe Valve	Kerotest	TR-34-13	10954	2-41-022A	1976	Replace-ment	Yes
1" Manual Globe Valve	Kerotest	TR-34-23	10964	2-41-022B	1976	Replace-ment	Yes
1" Manual Globe Valve	Kerotest	TR-34-1	10942	2-41-023A	1976	Replace-ment	Yes
1" Manual Globe Valve	Kerotest	TR-34-15	10956	2-41-023B	1976	Replace-ment	Yes
Large Pipe Sub Assembly	Bechtel	---	---	DLA-201-1	1983	Replaced Repaired	Yes

7. Description of Work Add test and vent connections to facilitate Feedwater Local Leak Rate Tests.
8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
   Other [ ] Pressure 1760 psi Test Temp. 83 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

*Design Change Package - DCP/PMR 85-3143
Work/Installation Packages: CWO's C-66404 & C-66407

FORM NIS-2 (Back)

9. Remarks See attached Manufacturer's Data Report for each valve
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 None

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

Signed [signature] Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co of Waltham, Mass. have inspected the components described in this Owner's Report during the period JULY 7, 1986 to SEP. 28, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 1986

(12/82)

1. Owner Pennsylvania Power & Light Co. (Name) — Date October 31, 1986

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — * See sheet 1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp N/A

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

4. Identification of System Feedwater (System 245A-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 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Sub Assembly	Bechtel	---	---	DLA-203-1	1983	Repaired Replaced	Yes
Small Pipe Sub Assembly	Bechtel	---	---	SP-DLA-201-1	'83	Repaired Replaced	Yes
Small Pipe Sub Assembly	Bechtel	---	---	SP-DLA-203-1	'83	Repaired Replaced	Yes

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 32 of 100

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

Date October 31, 1986

Sheet 1 of 2

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 North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp N/A
Authorization No. N/A
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-316 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81 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" Mtr Oper. Gate Valve	Anchor/ Darling	E6734-1-3	N/A	HV 2-41-82A	1986	Replace-ment	Yes
3" Mtr Oper. Gate Valve	Anchor/ Darling	E6734-1-4	N/A	HV 2-41-82B	1986	Replace-ment	Yes
3" Manual Gate Valve	Anchor/ Darling	E6734-2-3	N/A	2-41-021A	1986	Replace-ment	Yes
3" Manual Gate Valve	Anchor/ Darling	E6734-2-4	N/A	2-41-021B	1986	Replace-ment	Yes
1" Manual Glove Valve	Henry Vogt	13-215319	N/A	2-47-024A	1986	Replace-ment	Yes

7. Description of Work Add isolation valves and vent and drain connections to facilitate Feedwater Local Leak Rate Testing.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 1760 psi Test Temp. 83 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* Design Change Package: DCP/PMR 85-3143
Work/Installation Package: CWO's C-66403, C-66405, C-66406, C-66407 and C-66503
Non-Conformance Report: 86-0715 (CWO C-66635)

FORM NIS-2 (Back)

9. Remarks See attached Manufacturer's Data Report for each valve
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 None

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

Signed J.A. Blakeslee Jr. Date November 12, 1986
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 Boston Mfgrs. Mutual Ins. Co. of Waltham, Mass have inspected the components described in this Owner's Report during the period JULY 7, 1986 to SEP. 28, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 19 1986

(12/82)

1. Owner Pennsylvania Power & Light Company (Name) — Date October 31, 1986

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

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

4. Identification of System Feedwater (System 245A - Class 2)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, N-316 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, Winter '81 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" Manual Globe Valve	Henry Vogt	20-215319	N/A	2-42-025A	1986	Replace-ment	Yes
1" Manual Globe Valve	Henry Vogt	16-215319	N/A	2-41-026A	1986	Replace-ment	Yes
1" Manual Globe Valve	Henry Vogt	19-215319	N/A	2-41-026B	1986	Replace-ment	Yes
1" Manual Globe Valve	Henry Vogt	15-215319	N/A	2-41-027A	1986	Replace-ment	Yes
1" Manual Globe Valve	Henry Vogt	17-215319	N/A	2-41-027B	1986	Replace-ment	Yes
Large Pipe Sub-Assembly	Bechtel	---	---	DBB-222-1	1983	Repaired Replaced	Yes
Large Pipe Sub-Assembly	Bechtel	---	---	DBB-218-1	1983	Repaired Replaced	Yes
Large Pipe Sub-Assembly	Bechtel	---	---	DBB-219-1	1983	Repaired Replaced	Yes
Small Pipe Sub-Assembly	Bechtel	---	---	SP-DBB-222-2	1983	Repaired Replaced	Yes
Small Pipe Sub-Assembly	Bechtel	---	---	SP-DBB-218-1	1983	Repaired Replaced	Yes
Small Pipe Sub-Assembly	Bechtel	---	---	SP-DBB-219-2	1983	Repaired 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 Oct. 27, 1986

Two N. Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 5

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 4 & 5 (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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal System 249A II

5. (a) Applicable Construction Code Section 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 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" 900# c.s. GB-Y Valve	Anchor-Darling	E-5853-74-1	N/A	HV-251-F017A	1976	Replaced	Yes
24" 900# c.s. GB-Y Valve	Anchor-Darling	E-5853-74-2	N/A	HV-251-F017B	1976	Replaced	Yes
20" 900# c.s. GB Valve	Control Components	35188-1-3	N/A	HV-251-F017A	1985	Replacement	Yes
20" 900# c.s. GB Valve	Control Components	35188-1-4	N/A	HV-251-F017B	1985	Replacement	Yes
20" Flow Orifice	Vickery Simms, Inc.	N/A	N/A	FO-25100A	1980	Replaced	No

7. Description of Work See Continuation Sheet No. 4

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] Pressure 550 psi Test Temp. 76 °F

TP-249-015 Rev. 1
TP-249-016 Rev. 1
SE-249-400

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

FORM NIS-2 (Back)

9. Remarks All applicable Manufacturer's Code Data Reports (NPV-1 forms) are 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 None

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

Signed J. A. Blakeslee Jr. Date November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period JUNE 7, 1986 to SEP. 23, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 19 86

(12/82)

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

Date Oct. 27, 1986

Sheet 2 of 5

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

Unit II

See Continuation Sheet No. 4 & 5
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. (Name)
Two N. Ninth St., 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 II

5. (a) Applicable Construction Code Section 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 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)
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100B	1980	Replaced	No
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100C	1980	Replaced	No
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100D	1980	Replaced	No
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100A	1986	Replace-ment	No
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100B	1986	Replace-ment	No
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100C	1986	Replace-ment	No
20" Flow Orifice	Vickery Simms	N/A	N/A	FO-25100D	1986	Replace-ment	No
24" Pipe Assembly	Bechtel	N/A	N/A	DBB-207-1	1984	Repaired	Yes
24" Pipe Assembly	Bechtel	N/A	N/A	DBB-207-2	1984	Repaired	Yes

1. Owner Pennsylvania Power & Light Co. (Name) — Date October 27, 1986

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 5

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 4 & 5 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp N/A

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

4. Identification of System Residual Heat Removal System 249A II

5. (a) Applicable Construction Code Section 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 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" Pipe Assembly	Bechtel	N/A	N/A	GBB-206-1	1984	Repaired	Yes
24" Pipe Assembly	Bechtel	N/A	N/A	GBB-206-2	1984	Repaired	Yes
Small Pipe Assembly	Bechtel	N/A	N/A	SP-GBB-206-1	1984	Repaired Replaced	Yes
Small Pipe Assembly	Bechtel	N/A	N/A	SP-GBB-206-2	1984	Repaired Replaced	Yes
Small Pipe Assembly	PP&L	N/A	N/A	SP-GBB-206-1	1986	Replace-ment	No
Small Pipe Assembly	PP&L	N/A	N/A	SP-GBB-206-2	1986	Replace-ment	No
Large Pipe Support	Bechtel	N/A	N/A	GBB-209-H8	1984	Repaired Replaced	Yes
Large Pipe Support	PP&L	N/A	N/A	GBB-209-H8	1986	Replace-ment	No
Instrument Tubing Support	Bechtel	N/A	N/A	JD-34-3-1C	1984	Repaired Replaced	Yes
Instrument Tubing Assembly	PP&L	N/A	N/A	JD-34-3-1C	1986	Replace-ment	No

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

Two N. Ninth St., Allentown, PA 18101 (Address) — Sheet 4 of 5

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 4 & 5 (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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal System 249A II

5. (a) Applicable Construction Code Section 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 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

7. Description of Work (Continued):

The RHR HV-251-F017 A&B Valve replacements.

The temporary removal and re-installation of the relief valve inlet piping in support of the 17 valve replacements.

The rework of support GBB-209-H8.

The replacement of the four RHR pump discharge flow orifices.

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

Design Documents:

PMR 83-449A RHR Valves HV-251-F017 A&B Replacements

Non-Conformance Reports:

NCR 86-434 Orifice plate vendor had no ASME Cerfificate of Authorization

NCR 86-479 Weld prep out of tolerance

NCR 86-507 Support GBB-209-H8, Flanges on wide flange beam W6 x 15.5 are deformed

NCR 86-510 Weld wire used by G.E. Produced excessive amounts of porosity in welds

NCR 86-637 Weld wire used on 17 valve replacements, supplier not on the ASQL.

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

Two N. Ninth St., Allentown, PA 18101 (Address) — Sheet 5 of 5

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 4 & 5 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp N/A

Tow N. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal System 249A II

5. (a) Applicable Construction Code Section 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 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Work Documents:

CWO C-66357	Replacement of the B&D RHR pump discharge flow orifices
CWO C-66358	Replacement of the A&C RHR pump discharge flow orifices
CWO C-66360	Hydrostatic test RHR A Loop
CWO C-66361	Hydrostatic test RHR B Loop
CWO C-66362	RHR 17A Valve Replacement
CWO C-66363	RHR 17B Valve Replacement
CWO C-66365	Removal and Re-installation of interferences for the RHR 17B Valve replacement
CWO C-66366	Removal and Re-installation of interferences for the RHR 17A Valve replacement
CWO C-66367	Rework of support GBB-209-H8
CWO C-66372	Fabrication of the replacement sway strut for support GBB-209-H8

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

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12/04/84
   Two N. 9th Street, Allentwon, PA. 18101 (Address) — Sheet 1 of 3
2. Plant Susquehanna Steam Electric Station (Name) — Unit #2
   Berwick, PA. 18603 (Address) — ~~PMR-84-3079~~, CWO's C -44524, C-44525 and C-44526 (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 Residual Heat Removal - (System 249A) Cl. 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 ~~81~~ 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 SYSTEM VALVE NUMBER	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2" Globe Vlv	Yarway	B2299	NONE	2-51-052	1980	Replacement	YES
2" Globe Vlv	Yarway	B2300	NONE	2-51-054	1980	Replacement	YES
2" Globe Vlv	Yarway	B2301	NONE	2-51-055	1980	Replacement	YES
2" Globe Vlv	Yarway	B2302	NONE	2-51-050	1980	Replacement	Yes

7. Description of Work Add Spectacle Flange set and double isolation drain/test connection to Residual Heat Removal System - allows ctmt. isolation valves LLRT.
8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
   Other [X] Pressure 175 psi Test Temp. 66 °F

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

FORM NIS-2 (Back)

9. Remarks 1. See attached Manufacturers Data Reports for (4) each 2" globe valves
Applicable Manufacturer's Data Reports to be attached

2. Total of (2) each 10" butt weld were not subjected to hydrotest; being exemped per Code Case N-241

3. Added isometric drawings SP HBB-220-3 and SP-HBB-220-4

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 H Keeis Date 12-12-84, 19
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 BOSTON MFGRS. MUTUAL INS. CO of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period SEPT. 26, 1984 to NOV. 30, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 FACTORY MUTUAL SYSTEM PA 2204 NB 7980 NIBS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 13 19 84

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Pennsylvania Power and Light Co. (Name) — Date October 9, 1986

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

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

Berwick, PA 18603 (Address) — CWO C66464; MMP 86-8006 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Residual Heat Removal SUS 249A

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 thru W '81 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)
Pipe Support	Bechtel	N/A	N/A	GBB-204-H94	1983	Repaired	Yes

7. Description of Work Support Modification To Facilitate RHR Heat Exchanger Inspection

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

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 J A Blakeslee Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period Aug 1, 1986 to Sep 25, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21, 19 86

(12/82)

FORM NIS-2 OWNER'S 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 October 14, 1986
   Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station (Name)
   P.O. Box 467, Berwick, PA 18603 (Address)
   Unit II
   WA #V63370 (Repair Organization P.O. No., Job No., etc.)

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

4. Identification of System Residual Heat Removal - S/U 249A

5. (a) Applicable Construction Code Section 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	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Assembly	Bechtel	N/A	N/A	SP-HRC-227-3 Item 30	1983	Replaced	Yes
Small Pipe Assembly	PP&L	N/A	N/A	SP-HRC-227-3 Item 30	1986	Replace-ment	No

7. Description of Work Replaced existing deficient union with new union to allow a better fit-up.

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

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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 (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 J. A. Blakeslee (Owner or Owner's Designee, Title) Date November 24, 19 86

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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period Sep. 18, 1986 to Sep. 23, 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 (Inspector's Signature) Commissions NB7980 PA2204 NIBS II (National Board, State, Province, and Endorsements)

Date Nov. 26 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 47 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date October 9, 1986

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

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

Berwick, PA 18603 (Address) — CWO C66486, MMP 86-8007 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Residual Heat Removal SUS 249B

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 thru W '81 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)
Pipe Support	Bechtel	N/A	N/A	Dwg # SP-HRC-236-H9001	1983	Repaired	Yes
Pipe Support	Bechtel	N/A	N/A	Dwg # SP-HRC-2520-H9002	1983	Repaired	Yes

7. Description of Work Support Modification to Facilitate RHR Heat Exchanger Inspection

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

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 J A Blakeslee Jr Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period Aug. 1, 1986 to Sep. 26, 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 Commissions NB7990 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

FACTORY MUTUAL SYSTEM

Date Nov 21 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 99 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date 10/8/86

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

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

Berwick, PA 18603 (Address) — CWO C55531, PMR 85-3137 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Residual Heat Removal - S/U 249E

5. (a) Applicable Construction Code Section III 1971 Edition, Winter '72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Thru 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)
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-GBB-218-1	1983	Repair	Yes

See Note 1

7. Description of Work Installation of a threaded pipe cap to provide a secondary containment isolation boundary.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed J A Blakesley Jr Date November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period SEP. 23, 1985 to OCT. 7, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 19 86

(12/82)

NOTE:

1. Partial removal of Non-ASME portion of SP-GBB-218-1, affecting ABR-2199

FORM NIS-2 OWNER'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 Oct. 27, 1986

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 3&4 (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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal/Shutdown Cooling Mode 249G I

5. (a) Applicable Construction Code Section 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 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" 1500# s.s. GBY Valve	Borg-Warner	80754	N/A	2-51-103	1985	Replacement	Yes
1" 1500# s.s. GBY Valve	Borg-Warner	80760	N/A	2-51-104	1985	Replacement	Yes
1" 1500# s.s. GBY Valve	Borg-Warner	11768	N/A	2-51-107	1976	Replacement	Yes
1" 1500# s.s. GBY Valve	Borg-Warner	80764	N/A	2-51-108	1985	Replacement	Yes
1" 1500# s.s. GBY Valve	Borg-Warner	12265	N/A	2-51-109	1976	Replacement	Yes

7. Description of Work See Continuation Sheet No. 3

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]

Other [ ] Pressure 1910 psi Test Temp. 76 °F TP-249-015 Rev. 1

1900 80 TP-249-016 Rev. 1

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

FORM NIS-2 (Back)

9. Remarks All applicable Manufacturer's Code Data Reports, (NPV-1 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 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 J A Blakeslee Date November 12, 1986

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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period AUG. 25, 1986 to SEP. 16, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 1986

(12/82)

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 3 & 4 (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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal/Shutdown Cooling Mode 249G I

5. (a) Applicable Construction Code Section 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 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" 1500# s.s GBY Valve	Borg-Warner	15280	N/A	2-51-110	1976	Replace-ment	Yes
1" 1500# s.s. GBY Valve	Borg-Warner	80758	N/A	2-51-113	1985	Replace-ment	Yes
1" 1500# s.s GBY Valve	Borg-Warner	80755	N/A	2-51-114	1985	Replace-ment	Yes
24" Pipe Assembly	Bechtel	N/A	N/A	DCA-210-1	1983	Repaired	Yes
24" Pipe Assembly	Bechtel	N/A	N/A	DCA-210-2	1983	Repaired	Yes
24" Pipe Assembly	PP&L	N/A	N/A	DCA-210-1	1986	Replace-ment	No
24" Pipe Assembly	PP&L	N/A	N/A	DCA-210-2	1986	Replace-ment	No
1" Small Pipe Assembly	Bechtel	N/A	N/A	SP-DCA-210-1	1983	Repaired	Yes
1" Small Pipe Assembly	PP&L	N/A	N/A	SP-DCA-210-3	1986	Replace-ment	No

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal/Shutdown Cooling Mode 249G I

5. (a) Applicable Construction Code Section 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 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" Small Pipe Assembly	PP&L	N/A	N/A	SP-DCA-210-4	1986	Replace-ment	No
1" Small Pipe Assembly	Bechtel	N/A	N/A	SP-DCA-210-H5014	1983	Repaired Replaced	Yes
1" Small Pipe Support	PP&L	N/A	N/A	SP-DCA-210-H5014	1986	Replace-ment	No

7. Description of Work (Continued):

The installation of a high point vent and low point drain on both loops of the RHR Shutdown Cooling Discharge Lines between valves HV-251-F050'S and HV-251-F060'S and also the rework of the existing 1" test connection and associated support on the 50A equalizing line.

Repair Organization P.O. No., Job No., Etc. (Continued):

Design Documents:

PMR 86-9054 Installation of Vents and Drains "B" Loop RHR
PMR 86-9055 Installation of Vents and Drains "A" Loop RHR

Non-Conformance Reports:

NCR 86-487 Fabrication and Installation of Vents and Drains Without an Approved PMR (PMR 86-9055).

NCR 86-488 Fabrication and Installation of Vents and Drains Without

1. Owner Pennsylvania Power & Light co. (Name) — Date October 27, 1986

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

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

P.O. Box 467, 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 North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Residual Heat Removal/Shutdown Cooling Mode 249G I

5. (a) Applicable Construction Code Section 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 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)

Repair Organization, P.O. No., Job No., Etc., Continued:

NCR 86-488 (Continued): An approved PMR (PMR 86-9054).

NCR 86-590 Internal Cleanliness, Metal Chips Found In System From Installation of Vents and Drains.

Work Documents:

CWO C-66549 Fabrication of the Vent and Drain Assemblies For RHR "B" Loop

CWO C-66550 Fabrication of the Vent and Drain Assemblies For RHR "A" Loop

CWO C-66557 Installation of High Point Vent Between Valves 2-51-060A and HV-251-F050A

CWO C-66559 Installation of Low Point Drain Between Valves HV-251-F015A and HV-251-F050A

CWO C-66560 Rework of the Existing Test Connection and Associated Support of the 50A Check Valve Equalizing Line

CWO C-66566 Installation of High Point Vent Between Valves HV-251-F050B and 2-51-F060B.

CWO C-66567 Installation of Low Point Drain Between Valves HV-251-F015B and HV-251-F050B.

CWO C-66602 Removal and Reinstallation of High Point Vent Line for Cleanliness Verification

FORM NIS-2 OWNER'S 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. Ninth St., Allentown, PA 18101 (Address)
   Date Oct. 27, 1986
   Sheet 1 of 4
2. Plant Susquehanna Steam Electric Station (Name)
   P.O. Box 467, Berwick, PA 18603 (Address)
   Unit II
   See Continuation Sheet No. 3 & 4 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name)
   Two N. Ninth St., Allentown, PA 18101 (Address)
   Type Code Symbol Stamp N/A
   Authorization No. N/A
   Expiration Date N/A
4. Identification of System RHR Shutdown Cooling Mode 249G II
5. (a) Applicable Construction Code Section 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 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" 1500# c.s. GB-Y Valve	Yarway	5889	None	2-51-105	1976	Replace-ment	Yes
1" 1500# c.s. GB-Y Valve	Yarway	6361	None	2-51-106	1976	Replace-ment	Yes
1" 1500# c.s. GB-Y Valve	Yarway	5328	None	2-51-111	1976	Replace-ment	Yes
24" Piping Assembly	Bechtel	N/A	N/A	DBB-207-1	1983	Repaired	Yes
1" 1500# c.s. GB-Y Valve	Yarway	5325	None	2-81-112	1976	Replace-ment	Yes

7. Description of Work See Continuation Sheet No. 3
8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
   Other [ ] Pressure 1910 psi Test Temp. 76 °F TP-249-015 Rev. 1
   1900 80 TP-249-016 Rev. 1

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

FORM NIS-2 (Back)

9. Remarks All applicable Manufacturer's Code Data Reports, (NPV-1 forms) are 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 J A Blokesley Jr Date November 12, 1986

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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period JULY 25, 1986 to SEPT 23, 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 Commissions NB7930 PA2204 NIBS IS

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

Date Nov. 20 1986

(12/82)

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

Date Oct. 27, 1986

Sheet 2 of 4

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

Unit II

See Continuation Sheet No. 3 & 4
Repair Organization P.O. No., Job No., etc.

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

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

4. Identification of System RHR Shutdown Cooling Mode 249G II

5. (a) Applicable Construction Code Section 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 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" Piping Assembly	Bechtel	N/A	N/A	DBB-207-2	1983	Repaired	Yes
1" small piping assembly	Bechtel	N/A	N/A	SP-DBB-207-1	1983	Repaired Replaced	Yes
1" small piping assembly	PP&L	N/A	N/A	SP-DBB-207-1	1986	Replacement	No
24" piping assembly	PP&L	N/A	N/A	DBB-207-1	1986	Replacement	No
24" piping assembly	PP&L	N/A	N/A	DBB-207-2	1986	Replacement	No
1" small pipe assembly	PP&L	N/A	N/A	SP-DBB-207-5	1986	Replacement	No
1" small pipe assembly	PP&L	N/A	N/A	SP-DBB-207-6	1986	Replacement	No
1" small pipe support	Bechtel	N/A	N/A	SP-DBB-207-H1	1983	Repaired	Yes

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 4 (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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System RHR Shutdown Cooling Mode 249G II

5. (a) Applicable Construction Code Section 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 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

7. Description of Work (Continued)

The installation of a low point drain on both loops of the RHR Shutdown Cooling Discharge Lines, between valves HV-251F017S and HV-251-F015S.

The temporary removal and re-installation of the RHR B Loop Shutdown Cooling Keep Fill Line and associated support.

And the RHR valve (HV-251F017A&B) replacements.

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

Design Documents:

PMR 83-449A RHR Valves HV-251F017A&B valve replacement

PMR 86-9054 Installation of vents and drains "B" Loop RHR

PMR 86-9055 Installation of vents and drains "A" Loop RHR

Non-Conformance Reports:

NCR 86-479 Weld Prep Out of Tolerance
NCR 86-487 Installation of Vents and Drains Without an Approved PMR (PMR 86-9055)
NCR 86-488 Installation of Vents and Drains Without an Approved PMR (PMR 86-9054)
NCR 86-510 Weld Wire Used by G.E. Produced Excessive Amounts of Porosity in Welds
NCR 86-590 Metal Chips from the Installation of the Vents and Drains Found in the System
NCR 86-626 Missed Prep NDE on Support SP-DBB-207-1-H1 Item 3
NCR 86-637 Weld Wire Used on 17 Valve Replacements, Supplier Not on the ASQL

Work Documents:

CWO C-66360 Hydrostatic Test RHR A Loop
CWO C-66361 Hydrostatic Test RHR B Loop
CWO C-66362 RHR 17A Valve Replacement
CWO C-66363 RHR 17B Valve Replacement
CWO C-66365 Removal and Re-Installation of Interferences for the RHR 17B Valve Replacement

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

Date Oct. 27, 1986

Sheet 4 of 4

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

Unit II

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

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

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

4. Identification of System RHR Shutdown Cooling Mode 249G II

5. (a) Applicable Construction Code Section 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 1981 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Repair Organization P.O. No., Job No., Etc., Continued:

Work Documents:

CWO C-66366	Removal and Re-Installation of Interferences for the RHR 17A Valve Replacement
CWO C-66549	Fabrication of Vent and Drain Assemblies for "B" Loop RHR
CWO C-66550	Fabrication of Vent and Drain Assemblies for "A" Loop RHR
CWO C-66558	Installation of Drain Line Between Valves HV-251-F017A and HV-215-F015A
CWO C-66568	Installation of Drain Line Between Valves HV-251F017B and HV-215-F015B

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 61 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date November 6, 1986

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

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

Berwick, PA 18603 (Address) — WA U53006; PMR 85-3069 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Reactor Core Isolation Cooling, System 250A

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 thru W '81 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"-900 Check Tilt Disc	Anchor Darling	U2379	N/A ~~2392~~	249F014	1986	Replacement Repair	Yes
6"-900 Check Tilt Disc	Anchor Darling	R377	N/A	249F014	1975	Replaced	Yes

7. Description of Work Replaced hard seat tilting disc with dual seat tilting disc.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1140 psi Test Temp. 350 °F

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

FORM NIS-2 (Back)

9. Remarks Replacement disc was supplied by Anchor Darling Valve Company via A/DV service order E-6599-1. Disc was reworked/repaired to original condition by Anchor Darling Valve Co. via A/DV service order R-6978 after hinge pin holes were drilled in the wrong location.

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

Signed J. A. Blakesley Jr. Date November 12, 1986

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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period SEP. 30, 1986 to OCT. 23, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 19 1986

(12/82)

FORM NIS-2 OWNER'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 Oct. 27, 1986

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 2 & 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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Core Injection Cooling Steam Supply 250B II

5. (a) Applicable Construction Code Section 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 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)
4" 900# c.s. GB Valve	Anchor Darling	E-5853-98-1	N/A	HV-250F045	1976	Replaced	Yes
4" 900# c.s GB Valve	Anchor Darling	E-6511-1-1	N/A	HV-250F045	1985	Replace-ment	Yes
Lg Pipe Assembly	Bechtel	N/A	N/A	DBB-209-2	1984	Repair Replaced	Yes
Lg Pipe Assembly	PP&L	N/A	N/A	DBB-209-2	1986	Replace-ment	No
Lg Pipe Support	Bechtel	N/A	N/A	DBB-209-H51	1984	Repair Replaced	Yes

7. Description of Work See Continuation Sheet No. 2

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]

Other [ ] Pressure 1550 psi Test Temp. 63 °F Shop Hydro/CWO C-66590

1560 74 TP-250-010 Rev. 0

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

FORM NIS-2 (Back)

9. Remarks All applicable Manufacturer's Code Data Reports (NPV-1 forms) are 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 None

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

Signed J A Blakeslee Date November 12, 1986

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 Boston Mfgrs. Mutual Ins. Co. Waltham, MA have inspected the components described in this Owner's Report during the period SEP. 15, 1986 to OCT. 13, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 1986

(12/82)

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

Two N. Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 3

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

P.O. Box 467, Berwick, PA 18603 (Address) — See Continuation Sheet No. 2 & 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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Core Injection Cooling Steam Supply 250B II

5. (a) Applicable Construction Code Section 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 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)
Lg Pipe Support	PP&L	N/A	N/A	DBB-209-H51	1986	Replace-ment	No

7. Description of Work (Continued):

The replacement of valve HV-250F045 and the expander flange on the down stream side of the valve.

Plus the replacement of the valve stem and modification of support DBB-209-H51 to allow for the installation of the replacement valve.

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

Design Documents:

PMR 86-9051 Replacement of RCIC steam supply turbine isolation valve HV-250F045

Non-Conformance Reports:

NCR 86-0652 Min wall violation on DBB-209-2 between weld Nos. 24 & 15

1. Owner Pennsylvania Power & Light Co. (Name) — Date Oct. 27, 1986

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

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

P.O. Box 467, 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. Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Core Injection Cooling Steam Supply 250B II

5. (a) Applicable Construction Code Section 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 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Work Documents:

CWO C-66588	Valve HV-250F045 Replacement
CWO C-66589	Replace stem in new 45 valve
CWO C-66590	Shop hydrostatic test for weld No. 23
CWO C-66591	Hydrostatic test as per TP-250-010

FORM NIS-2 OWNER'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 October 31, 1986
   Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of
2. Plant Susquehanna Steam Electric Station (Name) — Unit 2
   Berwick, PA 18603 (Address) — PMR 85-3072, WA-U53005 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp N/A
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A, Expiration Date N/A
4. Identification of System HPCI (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)
14" - 900 Tlt Disc Ck Disc	Anchor/ Darling	U2432	N/A	255F005	1986	Replacement	Yes
14"-900 Tlt Disc Ck Disc	Anchor/ Darling	E870	N/A	255F005	1975	Replaced	Yes

7. Description of Work Replace original disc with a new dual seat disc, thus improving backflow sealing at low pressures.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure 1275 psi Test Temp. 250 °F

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

FORM NIS-2 (Back)

9. Remarks See Manufacturers N-2 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 (repair or 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 J. C. Blakesley Date November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co. of Waltham, Mass have inspected the components described in this Owner's Report during the period Aug. 19, 1986 to Sep. 23, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 19 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 69 of 100

1. Owner Pennsylvania Power & Light Co. (Name) — Date October 31, 1986

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) — * 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 North Ninth St., Allentown, PA 18101 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System HPCI (System 252B - Class 2)

5. (a) Applicable Construction Code 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)
Small Pipe Support	Terry Steam Turbine Cp.	N/A	N/A	SP-SK-72-H18	1974	Replaced Repaired	No
1/2" CBB Globe	Yarway	A 1125	None	LO-2-5	1977	Replacement	Yes

7. Description of Work Replacement of ball valve, and installation of sample connection on HPCI Lube Oil Piping.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 36 psi Test Temp. 74 °F

(85-90 psi for C-66482)

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* PMRs 85-3070 & 85-8036

CWOs C-55791, C-55792, C-55793, C-66487, C-66481 and C-66482

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports
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 None

Certificate of Authorization No. N/A Expiration Date

Signed J A Blakeslee Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co of Waltham, Mass have inspected the components described in this Owner's Report during the period Dec. 20, 1985 to Sep. 8, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 71 of 100

1. Owner Pennsylvania Power & Light Co. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
   Date October 27, 1986
   Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station (Name)
   P.O. Box 467, Berwick, PA 18603 (Address)
   Unit II
   See Continuation Sheet No. 3 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
   Type Code Symbol Stamp N/A
   Authorization No. N/A
   Expiration Date N/A

4. Identification of System StandBy Liquid Control 253A II

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 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" 150# SS Gate Valve	Borg-Warner	72907	N/A	2-48-011	1981	Repaired	Yes
3" 150# SS Gate Valve	Borg-Warner	72907	N/A	2-48-011	1981	Replace-ment	Yes
3" 150 SS Gate Valve	Borg-Warner	72913	N/A	2-48-012	1981	Repaired	Yes
3" 150# SS Gate Valve	Borg-Warner	72913	N/A	2-48-012	1981	Replace-ment	Yes
2" 1500# SS Gate Valve	Borg-Warner	17984	N/A	2-48-F014	1976	Replace-ment	Yes

7. Description of Work See Continuation Sheet No. 3

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
   Other [ ] Pressure 110 psi Test Temp. 85 °F TP-253-001

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

FORM NIS-2 (Back)

9. Remarks The new Borg-Warner valve serial numbers 72907, 72913, and 17984 manufacturer's data reports are 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 None

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

Signed J A Blakeslee Date November 12, 19 86

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 Bostom Mfrgs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period MAY 9, 1986 to AUG. 21, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 19 86

(12/82)

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

Date October 27, 1986
Sheet 2 of 3

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

Unit II
See Continuation Sheet No. 3
Repair Organization P.O. No., Job No., etc.

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

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

4. Identification of System StandBy Liquid Control 253A II

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 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" 1500 SS Gate Valve	Borg-Warner	14963	N/A	2-48-F014	1976	Replaced	Yes
Pipe Sub Assembly	PP&L	N/A	N/A	HCB-205-1	1986	Replacement	No
Pipe Sub Assembly	Bechtel	N/A	N/A	HCB-205-1	1983	Repaired Replaced	Yes
Sm. Pipe Sub Assembly	PP&L	N/A	N/A	SP-HCB-205-1	1986	Replacement	No
Sm. Pipe Sub Assembly	Bechtel	N/A	N/A	SP-HCB-205-1	1983	Replaced	Yes
Pipe Support	PP&L	N/A	N/A	HCB-205-H53	1986	Replacement	No
Pipe Support	PP&L	N/A	N/A	HCB-205-H54	1986	Replacement	No
Sm. Pipe Support	Bechtel	N/A	N/A	SP-HCB-205-H57	1983	Repaired	Yes
Pipe Support	Bechtel	N/A	N/A	HCB-205-H3	1983	Repaired	Yes

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

Date October 27, 1986

Sheet 3 of 3

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

Unit II

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

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

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

4. Identification of System StandBy Liquid Control 253A II

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 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)

7. DESCRIPTION OF WORK (continued)

Installation and rework of the Stand-By Liquid Control System (SBLC) pump suction piping, valves and associated supports between:

a. SBLC storage tank 2T-204

b. SBLC pumps 2P-208 A&B

c. SBLC test tank isolation valve 2-48-F031

d. Demin water to SBLC isolation valve 2-48-F014

REPAIR ORGANIZATION P.O. NO., JOB NO., ETC. (continued)

Design Document PMR 85-3098B

Work Documents: CWO C-66245 Modify new 3" Borg-Warner gate valves serial numbers 72907 and 72913

CWO C-66320	Installation of Support HCB-205-H53
CWO C-66248	Pre-Fabrication of Piping Spools
CWO C-66253	Installation /Rework of SBLC Piping, Valves, and Supports
CWO C-66254	Hydrostatic Test

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

Page 75 of 110

1. Owner Pennsylvania Power & Light Co. (Name) Date 12/04/84
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) PMR'S 83-592 D AND E CWO'S C-44427 AND C-44443 (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 Emergency Service Water (System 254A), Cl. 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 ~~81~~ 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 System Valve Number	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2" Globe Vlv	Henry Vogt	7-215095	NONE	2-53-500	1984	Replacement	YES
2" Globe Vlv	Henry Vogt	11-215095	NONE	2-53-501	1984	Replacement	YES

7. Description of Work ADD TWO EACH 2" ISOLATION VALVES IN EMERGENCY SERVICE WATER SYSTEM. - AS PART OF A WATER HAMMER PREVENTION MODIFICATION.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 195 psi Test Temp. 62 °F

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

FORM NIS-2 (Back)

9. Remarks SEE ATTACHED MANUFACTURERS DATA REPORT FOR TWO EACH 2" GLOBE VALVES.
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 (repair or 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 R. Keese (Owner or Owner's Designee, Title) Date 12-12-84, 19

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the components described in this Owner's Report during the period OCT. 24, 1984 to NOV. 24, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 FACTORY MUTUAL SYSTEM PA2204 NB7980 NIBS (National Board, State, Province, and Endorsements)

Date DEC. 13 1984

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 77 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date July 2, 1986

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

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

Berwick, PA 18603 (Address) — CWO C55773/PMR 85-8011 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Emergency Service Water, S/U 254A-III

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 thru W '81 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)
Large Pipe Support	Bechtel	N/A	N/A	HRC-223-H5	1983	Repaired	Yes

7. Description of Work Replaced sway strut and added stiffener plates

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks 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 (repair or 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 J A Blakeslee Date November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period JAN. 13, 1986 to JULY 2, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 19 96

(12/82)

254 A - III

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 79 of 100

1. Owner PENNSYLVANIA POWER & LIGHT CO. (Name) — Date 1/20/86

TWO NORTH 9TH 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) — CWO C-44427 (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 EMERGENCY SERVICE WATER - SYSTEM 54A - CLASS 3

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/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)
FUEL POOL ISOLATION VALVE	HENRY VOGT MACHINE CO.	S/N 9-215095	N/A	2-53-500	84	REPLACEMENT	YES

7. Description of Work ESW PIPING REWORKED TO ALLOW FOR INSTALLATION OF 2" FUEL POOL ISOLATION VALVE PER PMR 83-592D

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure 196 psi Test Temp. 64 °F

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

8622522114227

FORM NIS-2 (Back)

9. Remarks ATTACHED NPV-1 FORM

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 (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 January 20, 19 86

Owner or Owner's Designee, Title Plant Superintendent

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 BOSTON MFGRS. MUTUAL INS. CO. of WALTHAM MASS. have inspected the components described in this Owner's Report during the period OCT. 24, 1984 to NOV. 24, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date FEB. 25 19 86

(12/82)

8625221478

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 81 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date July 28, 1986

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

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

Berwick, PA 18603 (Address) — CWO C-66018,C-66019/PMR 85-3078 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Reactor Building Control Rod Drive (255) Class 3

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 thru W '81 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" Check Vlv	Anchor Darling	E6695-1	N/A	2-46-027	1986	Replacement	Yes
3" Check Vlv	Anchor Darling	E6695-1-2	N/A	2-46-028	1986	Replacement	Yes
Large Pipe Subassembly	PP&L	N/A	N/A	DBC-208-1	1986	Replacement	No
Large Pipe Hanger	PP&L	N/A	N/A	DBC ~~DCB~~-208-H1	1986	Replacement	No
Large Pipe Hanger	PP&L	N/A	N/A	DBC ~~DCB~~-208-H2	1986	Replacement	No

7. Description of Work Added Non-ASME Isolation Valve and ASME Check Valves To Non-ASME CRD Drive Water Supply Line, including ASME supports

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] Pressure 2280 psi Test Temp. 85 °F

NOTE: Test per ANSI B31.1 due to isolation boundaries.

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

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports attached. This NIS-2 report is being filed for record purposes only. No N-5 package exists for System 255A-III.

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 NONE

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

Signed J A Blakeslee Date November 12, 19 86

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 Pensylvania and employed by Arkwright Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period JAN. 31, 1986 to JUNE 7, 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. Rogue III Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 20 19 86

(12/82)

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

Page 83 of 100

1. Owner Pennsylvania Power & Light Co. (Name) — Date 4-23-84
   Two North Ninth St., Allentown, PA (Address) — Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station (Name) — Unit II
   P.O. Box 467, 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 None
   Two North Ninth St., Allentown, PA (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Suppression Pool and Auxiliary, S/U 2-59A-II
5. (a) Applicable Construction Code Section III 19 71 Edition, 72 Addenda, 1493, 1522, 1563 1567, & 1571 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 Thru Summer 1978 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)
Containment Penetration	Chicago Brdg & Iron	N/A	N/A	X-88A	1976	Repaired	No
Containment Penetration	Chicago Brdg & Iron	N/A	N/A	X-220B	1976	Repaired	No

7. Description of Work Utilized Spare Penetrations For N_2 Make-Up Piping
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐
   Other ☐ Pressure 228 psi Test Temp. 74 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* CWO's C44150, C44152 and C44178/PMR 83-745

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 (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 J A Blakeslee Date November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period APR. 5, 1984 to APR. 18, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Nov. 20 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 85 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date 9-30-86

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

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

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 None

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

4. Identification of System Reactor Water Clean-Up, SUS 261A-III

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 thru W '81 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-201-4	1983	Repaired	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-~~EBC~~-EBC-201-5	1983	Repaired	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-203-5	1983	Repaired	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-203-6	1983	Repaired	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-203-7	1983	Repaired	No

7. Description of Work Replaced capillary sensor housing with flanged tubing connection

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None X

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

* CWO's C55641, C55643, and C55644/PMR 85-3054

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 (repair or 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 November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period Oct. 28, 1985 to May 20, 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 Commissions NB7980 PA2204 NIBS IS

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

Date Nov. 21 19 86

(12/82)

1. Owner Pennsylvania Power & Light Co. (Name) — Date 9-30-86

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

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

P.O. Box 467, Berwick, PA 18603 (Address) — * See Sheet 1 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Reactor Water Clean-Up SUS 261A-III

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 thru 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)
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-203-8	1983	Repaired	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-203-9	1983	Repaired	No
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-EBC-203-10	1983	Repaired	No

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 86 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date October 30, 1986

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

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

Berwick, PA 18603 (Address) — PMR 84-3127, CWO C44930 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Reactor Recirculation, SUS 264B-I

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 thru W '81 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Support	Bechtel	N/A	N/A	SP-DCA-202-H15	1983	Repaired	No

7. Description of Work Modified clamp to eliminate potential interference.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp None

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

Signed J A Blakeslee Jr (Owner or Owner's Designee, Title) Date November 12, 1986

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 Boston Mfgrs. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period Dec. 7, 1984 to Dec. 11, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB7900 PA2204 NIBS IS (National Board, State, Province, and Endorsements)

FACTORY MUTUAL SYSTEM

Date Nov. 20, 1986

(12/82)

FORM NIS-2 OWNER'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 4-23-84
   Two North Ninth St., Allentown, PA (Address) Sheet 1 of 2
2. Plant Susquehanna Steam Electric Station (Name) Unit II
   P.O. Box 467, 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 None
   Two North Ninth St., Allentown, PA (Address) Authorization No. N/A
   Expiration Date N/A
4. Identification of System Nitrogen Make-Up, S/U 273A-II
5. (a) Applicable Construction Code Section III 19 71 Edition, Winter '72 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 Thru Summer 1978 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-HCB 225-3	1982	Replaced	Yes
Small Pipe Subassembly	Bechtel	N/A	N/A	SP-HCB-226-11	1982	Replaced	Yes
Small Pipe Subassembly	PP&L	N/A	N/A	SP-HCB-256-1	1984	Replace-ment	No
Small Pipe Subassembly	PP&L	N/A	N/A	SP-HCB-257-1	1984	Replace-ment	No
Small Pipe Support	PP&L	N/A	N/A	SP-HCB-256-H1	1984	Replace-ment	No

7. Description of Work Reroute of Wetwell and Drywell Nitrogen Make-Up Piping To Spare Penetrations X-88A and X-220B
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐
   Other ☐ Pressure 228 psi Test Temp. 74 °F

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

*CWO No's: C44132, C44136, C44150, C44152, C44164, C44165 and C44178/PMR 83-745

FORM NIS-2 (Back)

9. Remarks NPV-1 Forms Attached For Valves: SV-25738, SV-25789, 2-57-202, 2-57-203 and 2-57-204.

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 May 14, 1986

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 _____ and employed by Arkwright Boston Mfgr's. Mutual Ins. Co of Waltham, MA have inspected the components described in this Owner's Report during the period MAR. 30, 1984 to ~~MAR~~ APR 18 1984 WRE 11-20-86, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date MAY 20 1986

(12/82)

FORM NIS-2 OWNER'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 4-23-84

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

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

   P.O. Box 467, 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 None

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

4. Identification of System Nitrogen Make-Up, S/U 273A-II

5. (a) Applicable Construction Code Section III 19 71 Edition, Winter 72 Addenda, N/A Code Case

   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 Thru Summer 1978 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Support	PP&L	N/A	N/A	SP-HCB-256-H1	1984	Replacement	No
Small Pipe Valve	Target Rock	S/N 1	N/A	SV-25737	1982	Repaired	Yes
Small Pipe Valve	Target Rock	S/N 3	N/A	SC-25738	1982	Replacement	Yes
Small Pipe Valve	Target Rock	S/N 2	N/A	SV-25767	1982	Repaired	Yes
Small Pipe Valve	Target Rock	S/N 4	N/A	SV-25789	1982	Replacement	Yes
Small Pipe Valve	Borg-Warner	S/N 63759	N/A	2-57-202	1981	Replacement	Yes
Small Pipe Valve	Borg-Warner	S/N 63758	N/A	2-57-203	1981	Replacement	Yes
Small Pipe Valve	Borg-Warner	S/N 63760	N/A	2-57-204	1981	Replacement	Yes

[illegible]

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 93 of 100

1. Owner Pennsylvania Power and Light Co. (Name) — Date September 26, 1986

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

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

Berwick, PA 18603 (Address) — CWO's C-55877 & C-55878/PMR 85-3019 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp None

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

4. Identification of System Sensing Line For XV-B21-2F009 (280-D) Class 1

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 thru W '81 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" Y-Globe Valve	Borg-Warner	12279	N/A	2-41-021	1986	Replacement	Yes
1" Y-Globe Valve	Borg-Warner	861-W-1000	N/A	2-41-022	1986	Replacement	Yes

7. Description of Work Addition of test connection and test isolation valves to enable testing of Reactor Vessel Flange Leakoff Excess Check Valve.

8. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ]
Other [ ] Pressure 1140 psi Test Temp. 80 °F

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

FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports attached.

Applicable Manufacturer's Data Reports to be attached

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 A Blakeslee Jr Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period JAN. 21, 1986 to OCT. 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 Commissions NB7980 - PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 20, 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 95 of 100

1. Owner Pennsylvania Power & Light Co. (Name) Date 10/14/86

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

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

P.O. Box 467, Berwick, PA (Address) WA #V63906 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light (Name) Type Code Symbol Stamp None

Authorization No. N/A

Two North Ninth St., Allentown, PA (Address) Expiration Date N/A

4. Identification of System Main Steam-RSTU-283-A

5. (a) Applicable Construction Code Section IV 19 71 Edition, Winter '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)
Snubber Rear Bracket	ITT GRINNEL	N/A	N/A	DBB-201 Hanger #24	1983	Repair.	YES

7. Description of Work Tack welded shim to rear bracket to modify the gap between the rear bracket 'ears'.

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed J A Blakeslee (Owner or Owner's Designee, Title) Superintendent of Plant Date November 12, 19 86

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 Boston Mfgrs. Mutual Ins. Co. Waltham, MA have inspected the components described in this Owner's Report during the period Sep. 25, 1986 to Oct. 3, 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 (Inspector's Signature) Commissions NB7930 PA2224 FACTORY MUTUAL SYSTEM NIBS IS (National Board, State, Province, and Endorsements)

Date Nov. 20 19 86

(12/82)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

Page 97 of 100

1. Owner Pennsylvania Power & Light Co. (Name) — Date 12-4-84

Two N. Ninth St., Allentown, PA. (Address) — Sheet 1 of 1

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

Berwick, PA. (Address) — PMO/WIP-1007-01/DCP84-1007 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Pennsylvania Power & Light (Name) — Type Code Symbol Stamp None

Two N. Ninth St., Allentown, PA. (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Inside Containment Main Steam (System 283D Class 3)

5. (a) Applicable Construction Code ASME III 19 71 Edition, Thru W72 Addenda, 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)
Main Steam Discharge Pipe Support	Bechtel Corp.	N/A	N/A	Hanger # GBC-201-H248	1984	Repaired	No

7. Description of Work Replaced the rear bracket and added a new plate to allow for proper cold and hot settings of the snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F None

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

FORM NIS-2 (Back)

9. Remarks 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 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 H Keera Date 12-5, 19 84
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 BOSTON MFGRS MUTUAL INS. CO. of WALTHAM MASS. have inspected the components described in this Owner's Report during the period DEC. 4, 1984 to DEC. 5, 1984, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA2204 NB7980 NIBS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 6 19 84

(12/82)

FORM NIS-2 OWNER'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 10/1/86
   Two North Ninth St., Allentown, PA 18101 (Address) Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station (Name) Unit II
   P.O. Box 467, Berwick, PA 18603 (Address) CWO's C66627 & C66628/PMR 86-9060 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by Pennsylvania Power & Light Co. (Name) Type Code Symbol Stamp None
   Two North Ninth St., Allentown, PA 18101 (Address) Authorization No. N/A
   Expiration Date N/A
4. Identification of System Auto Pressure Blowdown System, SUS 283E-III
5. (a) Applicable Construction Code Section III 19 71 Edition, Winter 72 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Thru 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)
Small Pipe SubAssembly	Bechtel	N/A	N/A	SP-HCC-231-19	1983	Repaired/Replacement	Yes
Small Pipe SubAssembly	Bechtel	N/A	N/A	SP-HCC-233-11	1983	Repaired/Replacement	Yes
Small Pipe SubAssembly	Bechtel	N/A	N/A	SP-HCC-233-12	1983	Repaired	Yes

7. Description of Work Reroute Of Piping To Perform Electrical Modification
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☒
   Other ☐ Pressure 165 psi Test Temp. 65 F

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

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repaired & 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 Blakeslee Jr Date November 12, 19 86
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 Boston Mfgrs. Mutual Ins. Co. of Waltham, MA have inspected the components described in this Owner's Report during the period SEP. 26, 1986 to OCT. 2, 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 20 19 86

(12/82)