



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

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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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It is an interesting question whether the above results are due to the fact that the subjects were not aware of the fact that they were being observed, or whether they were aware of it and were trying to perform better. The results of the experiment suggest that the subjects were aware of the fact that they were being observed, and were trying to perform better.

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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

- Pennsylvania Power and Light Company
 1. Owner 2 North 9th Street, Allentown, PA 18101
 (Name and Address of Owner)
 Susquehanna Steam Electric Station
 2. Plant 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 | A,B,D
2-49 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.

13. 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 John A. Byram
Owner SUPT. OF PLANT

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of PENNA. and employed by * of * have inspected the components described in this Owners' Data Report during the period 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.

Date JAN 19 19 87

FACTORY MUTUAL SYSTEM

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

* Arkwright Boston Mfgs. 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:
 - o Piping and component Examinations
 - o Reactor Pressure Vessel Examinations
 - o System Pressure Tests
 - o Snubber Functional Tests
 - o 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

Director
James H. Doolittle
State Department
Washington, D.C.

Dear Sir:
I am pleased to hear
from you and hope
you are well.
I am sure you will
be successful in
your work.

Very truly,
Your obedient servant,
John F. Kennedy

Enclosed for you
are two copies of
a letterhead memorandum
dated 10-1-60.

I am sure you will
find them of interest.

Very truly,
Your obedient servant,
John F. Kennedy

Enclosed for you
are two copies of
a letterhead memorandum
dated 10-1-60.

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.

Page 2 of 17

... to the volume
... configuration
... Unit 2 (first)
... components

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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% |

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

2. The second of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

3. The third of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

4. The fourth of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

5. The fifth of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

6. The sixth of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

7. The seventh of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the results of its investigation into the alleged activities of the British Intelligence Service in the United States.

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.

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California.

Section 1. The land owned by the United States in the State of California is as follows:

Section 2. The land owned by the United States in the State of California is as follows:

Section 3. The land owned by the United States in the State of California is as follows:

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 | SF-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.

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FD-324 (Rev. 5-22-64)

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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 #2RF-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.

with success.

the following information
is being provided to you
for your information.

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meeting on the 1st of

- 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.

1. The first part of the report
describes the general situation
and the results of the
investigation.

2. The second part of the report

describes the results of the
investigation and the
conclusions drawn from them.

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5. The third part of the report

describes the results of the

investigation and the

conclusions drawn from them.

6. The fourth part of the report

describes the results of the

investigation and the

conclusions drawn from them.

7. The fifth part of the report

describes the results of the

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conclusions drawn from them.

8. The sixth part of the report

describes the results of the

investigation and the

conclusions drawn from them.

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

| <u>WA NUMBER</u> | <u>SYSTEM/CLASS</u> | <u>DESCRIPTION</u> |
|------------------|---------------------|---|
| 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 |

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| <u>WA NUMBER</u> | <u>SYSTEM/CLASS</u> | <u>DESCRIPTION</u> |
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| 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 Valve 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 |
| V63-140 | 249B II | Seal weld body to bonnet on valve SV-251F080A |

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| <u>WA NUMBER</u> | <u>SYSTEM/CLASS</u> | <u>DESCRIPTION</u> |
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| 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; re-placed 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 | SF-HRC-239-H5012 Snubber Replacement |
| V64469 | 255B II | Removed ISI indications on weld VBB-202-1-FW2 |

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| <u>WA NUMBER</u> | <u>SYSTEM/CLASS</u> | <u>DESCRIPTION</u> |
|---|---------------------|--|
| 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 diaphragm and weld a new diaphragm 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 |

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| <u>WA NUMBER</u> | <u>SYSTEM/CLASS</u> | <u>DESCRIPTION</u> |
|------------------|---------------------|---|
| 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:

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| <u>DESIGN CHANGE
PACKAGE NUMBER</u> | <u>SYSTEM/CLASS</u> | <u>DESCRIPTION</u> |
|---|---------------------|--|
| 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-2327-H9002) |



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DESIGN CHANGE
PACKAGE NUMBER

SYSTEM/CLASS

DESCRIPTION

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|----------------------------|----------|--|
| 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 |

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| 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

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



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
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|--|--------------|--------------------|-----------------|--------------------|---------------------------|----------------------------|
| EXAM TYPE

DBA2081-FH-24
VOL | P-FH | ISI-DBA-208-1 | MS | 130180 | 08/22/86 | Y |
| VNBB213-FH-C-5
VOL | V-FH | ISI-VNB-B21-3 | MS | 320660 | 09/07/86 | Y |
| VNBB213-FH-C-6
VOL | FH-V | ISI-VNB-B21-3 | MS | 230360 | 09/01/86 | Y |
| VNBB213-FH-D-5
VOL | V-FH | ISI-VNB-B21-3 | MS | 320700 | 09/07/86 | Y |
| VNBB213-FH-D-6
VOL | FH-V | ISI-VNB-B21-3 | MS | 230380 | 09/01/86 | Y |
| VNBB214-FH-A-5
VOL | V-FH | ISI-VNB-B21-4 | MS | 320780 | 09/07/86 | Y |
| VNBB214-FH-A-6
VOL | FH-V | ISI-VNB-B21-4 | MS | 230400 | 09/01/86 | Y |
| VNBB214-FH-B-5
VOL | V-FH | ISI-VNB-B21-4 | MS | 320800 | 09/07/86 | Y |
| VNBB214-FH-B-6
VOL | FH-V | ISI-VNB-B21-4 | MS | 230420 | 09/01/86 | Y |
| DBB2181-1-B
VOL | P-SWOL | ISI-DBB-218-1 | RCIC | 210180 | 08/26/86 | Y |



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

EXAM TYPE
----- | DESC
----- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
--- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|----------------------------------|---------------|-------------------|-----------------|-------------------|---------------------------|----------------------------|
| DBB2213-FH-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-FH-6
VOL | E-P | ISI-DBB-222-2 | RWCU | 280100 | 09/11/86 | Y |
| DBB2222-FH-7
VOL | P-P | ISI-DBB-222-2 | RWCU | 280120 | 09/11/86 | Y |
| DBB2222-FH-8
VOL | P-P | ISI-DBB-222-2 | RWCU | 280140 | 09/11/86 | Y |
| DBB2222-FH-9
VOL | P-E | ISI-DBB-222-2 | RWCU | 280180 | 09/11/86 | Y |
| DBB2222-2-A
VOL | P-E | ISI-DBB-222-2 | RWCU | 280160 | 09/11/86 | Y |
| DBB2222-6-A
VOL | E-P | ISI-DBB-222-2 | RWCU | 280200 | 09/11/86 | Y |
| DBB2222-6-B
VOL | P-E | ISI-DBB-222-2 | RWCU | 280220 | 09/11/86 | Y |

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PAGE 4 86

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
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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

EXAM TYPE
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---- | ISI
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--- | SYSTEM
----- | EXAM
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SIGN-OFF
----- | PROGRAM
CREDIT
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|----------------------------------|--------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| DCA2071-FH-5
VOL | RED-SE EXT | ISI-DCA-207-1 | CS | 100140 | 09/11/86 | Y |
| DCA2072-FH-10
VOL | RED-SE EXT | ISI-DCA-207-2 | CS | 100500 | 09/11/86 | Y |
| DCA2091-FH-4
VOL | FH-P | ISI-DCA-209-1 | CS | 100120 | 09/11/86 | Y |
| DCA2092-FH-4
VOL | FH-P | ISI-DCA-209-2 | CS | 100180 | 09/11/86 | Y |
| DCA2081-FH-5
VOL | V-P | ISI-DCA-208-1 | RHR | 160100 | 09/05/86 | Y |
| DCA2081-1-A
VOL | E-P | ISI-DCA-208-1 | RHR | 160200 | 09/01/86 | Y |
| DCA2081-2-A
VOL | E-P | ISI-DCA-208-1 | RHR | 160180 | 08/27/86 | Y |
| DCA2102-FH-9
VOL | P-V | ISI-DCA-210-2 | RHR | 160200 | 09/11/86 | Y |
| DCB2021-FH-2
VOL | V-FH | ISI-DCB-202-1 | RHR | 270560 | 09/03/86 | Y |
| VRRB313-FH-A-1
VOL | SE-P | ISI-VRR-B31-3 | RR | 180300 | 09/05/86 | Y |

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
VOL | SNOL-P | ISI-VRR-B31-3 | RR | 180260 | 09/11/86 | Y |
| VRRB313-10-C
VOL | P-P | ISI-VRR-B31-3 | RR | 180240 | 09/12/86 | Y |
| VRRB314-FH-B-45
VOL | T-E | ISI-VRR-B31-4 | RR | 180420 | 09/03/86 | Y |
| DCA2021-FH-1
VOL | T-P | ISI-DCA-202-1 | RHCU | 190100 | 09/11/86 | N |
| DCA2022-FH-4
VOL | P-FH | ISI-DCA-202-2 | RHCU | 190180 | 09/11/86 | Y |
| DCA2022-FH-5
VOL | FH-P | ISI-DCA-202-2 | RHCU | 190140 | 09/11/86 | Y |

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

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

TALLY ITEM B4.12 8

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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
VT-2 | INCORE PEN | | RPV | | 10/08/86 | Y |
| INCORE-08-49
VT-2 | INCORE PEN | | RPV | | 10/08/86 | Y |
| INCORE-16-09
VT-2 | INCORE PEN | | RPV | | 10/08/86 | Y |
| TALLY ITEM B4.13 | 3 | | | | | |
| TALLY CODECAT 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
SUR | P-P | ISI-DCA-202-1 | RWCU | 190160 | 09/11/86 | Y |
| DCA2021-FH-6
VOL | P-P | ISI-DCA-202-1 | RWCU | 190160 | 09/11/86 | Y |
| DCA2022-FH-6
SUR | P-P | ISI-DCA-202-2 | RWCU | 190200 | 09/11/86 | Y |
| DCA2022-FH-6
VOL | P-P | ISI-DCA-202-2 | RWCU | 190200 | 09/11/86 | Y |

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

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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

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

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 | FH | | 09/10/86 | Y |
| 2F010B-BG2
VT-1 | VALVE BOLTING | ISI-DLA-203-1 | FH | | 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

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

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 |

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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-42-59-BLT
VT-1 | CRD HOUSING BLT | C-199557 | RPV | | 08/25/86 | Y |
| CRD-46-51-BLT
VT-1 | CRD HOUSING BLT | C-199557 | RPV | | 08/25/86 | Y |
| CRD-50-35-BLT
VT-1 | CRD HOUSING BLT | C-199557 | RPV | | 08/25/86 | Y |
| CRD-58-43-BLT
VT-1 | CRD HOUSING BLT | C-199557 | RPV | | 08/25/86 | Y |

TALLY ITEM B7.80 24
TALLY CODECAT 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

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

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

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

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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
SUR | P-E | ISI-VNB-B21-3 | MS | 320620 | 09/07/86 | Y |
| VNBB213-FH-C-3
VOL | P-E | ISI-VNB-B21-3 | MS | 320640 | 09/07/86 | Y |
| VNBB213-FH-C-6
SUR | FH-V | ISI-VNB-B21-3 | MS | 230340 | 09/01/86 | Y |
| VNBB213-FH-C-6
VOL | FH-V | ISI-VNB-B21-3 | MS | 230360 | 09/01/86 | Y |
| VNBB213-FH-D-1
SUR | SE-P | ISI-VNB-B21-3 | MS | 320980 | 09/11/86 | Y |
| VNBB213-FH-D-1
VOL | SE-P | ISI-VNB-B21-3 | MS | 320980 | 09/11/86 | Y |
| VNBB213-FH-D-3
SUR | E-T | ISI-VNB-B21-3 | MS | 320680 | 09/07/86 | Y |
| VNBB213-FH-D-3
VOL | E-T | ISI-VNB-B21-3 | MS | 320680 | 09/07/86 | Y |
| VNBB214-FH-A-6
SUR | FH-V | ISI-VNB-B21-4 | MS | 230400 | 09/01/86 | Y |
| VNBB214-FH-A-6
VOL | FH-V | ISI-VNB-B21-4 | MS | 230400 | 09/01/86 | Y |



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-FH-2
VOL | P-E | ISI-DBA-205-1 | RCIC | 150160 | 09/05/86 | Y |
| DBA2051-FH-2
SUR | P-E | ISI-DBA-205-1 | RCIC | 150160 | 09/05/86 | Y |
| DCA2081-FH-5
SUR | V-P | ISI-DCA-208-1 | RHR | 160100 | 09/05/86 | Y |
| DCA2081-FH-5
VOL | V-P | ISI-DCA-208-1 | RHR | 160100 | 09/05/86 | Y |
| DCA2081-FH-9
SUR | FH-V | ISI-DCA-208-1 | RHR | 170100 | 09/11/86 | Y |
| DCA2081-FH-9
VOL | FH-V | ISI-DCA-208-1 | RHR | 170100 | 09/11/86 | Y |
| DCA2081-1-A
SUR | E-P | ISI-DCA-208-1 | RHR | 160200 | 09/01/86 | Y |
| DCA2081-1-A
VOL | E-P | ISI-DCA-208-1 | RHR | 160200 | 09/01/96 | Y |
| DCA2081-2-A
SUR | E-P | ISI-DCA-208-1 | RHR | 160180 | 08/27/86 | Y |
| DCA2081-2-A
VOL | E-P | ISI-DCA-208-1 | RHR | 160180 | 08/27/86 | Y |



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
SUR | P-E | ISI-DCA-241-1 | RR | 180120 | 08/27/86 | Y |
| DCA2411-FH-3
VOL | P-E | ISI-DCA-241-1 | RR | 180140 | 08/27/86 | Y |
| DCA2411-3-B
SUR | T-P | ISI-DCA-241-1 | RR | 180160 | 08/27/86 | Y |
| DCA2411-3-B
VOL | T-P | ISI-DCA-241-1 | RR | 180160 | 08/27/86 | Y |
| VRRB313-10-C
SUR | P-P | ISI-VRR-B31-3 | RR | 180240 | 09/12/86 | Y |
| VRRB313-10-C
VOL | P-P | ISI-VRR-B31-3 | RR | 180240 | 09/12/86 | Y |
| DBA2011-FH-23
VOL | E-V | ISI-DBA-201-1 | RHCU | 190320 | 09/11/86 | Y |
| DBA2011-FH-23
SUR | E-V | ISI-DBA-201-1 | RHCU | 190320 | 09/11/86 | Y |
| DBA2011-FH-24
VOL | V-E | ISI-DBA-201-1 | RHCU | 190330 | 09/12/86 | Y |
| DBA2011-FH-24
SUR | V-E | ISI-DBA-201-1 | RHCU | 190330 | 09/12/86 | Y |



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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

EXAM TYPE
----- | DESC
----- | ISI
ISO
----- | SYSTEM
----- | EXAM
NO
----- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|------------------------------------|---------------|---------------------|-----------------|---------------------|---------------------------|----------------------------|
| DBA2011-FW-26
VOL | E-FH | ISI-DBA-201-1 | RWCU | 190340 | 09/11/86 | Y |
| DBA2011-FW-26
SUR | E-FH | ISI-DBA-201-1 | RWCU | 190340 | 09/11/86 | Y |
| DBA2011-FW-4
VOL | P-E | ISI-DBA-201-1 | RWCU | 190260 | 09/11/86 | Y |
| DBA2011-FW-4
SUR | P-E | ISI-DBA-201-1 | RWCU | 190260 | 09/11/86 | Y |
| DBA2011-FW-47
VOL | P-E | ISI-DBA-201-1 | RWCU | 190300 | 09/11/86 | Y |
| DBA2011-FW-47
SUR | P-E | ISI-DBA-201-1 | RWCU | 190300 | 09/11/86 | Y |

TALLY ITEM B9.11 56



SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.12
01/09/87

| CID

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



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SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 1986 FIRST REFUELING OUTAGE
 OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
 CODE CATEGORY B-J
 ITEM NUMBER B9.12
 01/09/87

| CID

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

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-J
ITEM NUMBER B9.12
01/09/87

| CID

EXAM TYPE
----- | DESC
----- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
--- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|----------------------------------|---------------|-------------------|-----------------|-------------------|---------------------------|----------------------------|
| VRRB313-7-C
VOL | ELBOW SEAM | ISI-VRR-B31-3 | RR | 180560 | 08/26/86 | N |
| VRRB313-8-C
VOL | ELBOW SEAM | ISI-VRR-B31-3 | RR | 180580 | 08/26/86 | N |
| VRRB314-4-C
VOL | ELBOW SEAM | ISI-VRR-B31-4 | RR | 180600 | 08/26/86 | N |
| VRRB314-5-C
VOL | ELBOW SEAM | ISI-VRR-B31-4 | RR | 180620 | 08/26/86 | N |
| VRRB314-6-C
VOL | ELBOW SEAM | ISI-VRR-B31-4 | RR | 180640 | 08/26/86 | N |
| VRRB314-7-C
VOL | ELBOW SEAM | ISI-VRR-B31-4 | RR | 180660 | 08/26/86 | N |
| VRRB314-8-C
VOL | ELBOW SEAM | ISI-VRR-B31-4 | RR | 180680 | 08/26/86 | N |

TALLY ITEM B9.12 27

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SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
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-FH-11
SUR | P-E | ISI-SP-DCA-206-1 | SBLC | 425000 | 09/11/86 | Y |

TALLY ITEM B9.21 1



SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 1986 FIRST REFUELING OUTAGE
 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
SUR | P-SHOL | ISI-VNB-B21-3 | MS | 320720 | 09/07/86 | Y |
| VNBB213-19-C
VOL | P-SHOL | ISI-VNB-B21-3 | MS | 320740 | 09/07/86 | Y |
| VNBB213-19-L
SUR | P-SHOL | ISI-VNB-B21-3 | MS | 320760 | 08/26/86 | Y |
| VNBB213-19-L
VOL | P-SHOL | ISI-VNB-B21-3 | MS | 320760 | 08/26/86 | Y |

TALLY ITEM B9.31 4



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SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
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
SUR | P-NOZ | ISI-SP-DCA-206-1 | SBLC | 425200 | 09/11/86 | Y |
| SPDCA2061-FH-14
SUR | T-P | ISI-SP-DCA-206-1 | SBLC | 425400 | 09/11/86 | Y |
| SPDCA2061-SH-1
SUR | E-P | ISI-SP-DCA-206-1 | SBLC | 426200 | 09/11/86 | Y |

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



SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-K-1
ITEM NUMBER B10.10
01/09/87

| CID

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

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SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
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
----- | | | | | | |
| DCB2021-HW-2C
SUR | PLT-P/H02 | ISI-DCB-202-1-H | RHR | 271200 | 09/07/86 | Y |
| DCB2021-HW-2D
SUR | PLT-P/H02 | ISI-DCB-202-1-H | RHR | 271200 | 09/07/86 | Y |

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

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SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
1986 FIRST REFUELING OUTAGE
OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
CODE CATEGORY B-M-2
ITEM NUMBER B12.50
01/09/87

| CID

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

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



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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

DRY TUBE 16-45
VT-3 | INCORE DRY TUBE | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| DRY TUBE 16-53
VT-3 | INCORE DRY TUBE | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| DRY TUBE 24-37
VT-3 | INCORE DRY TUBE | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| DRY TUBE 32-37
VT-3 | INCORE DRY TUBE | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| DRY TUBE 40-45
VT-3 | INCORE DRY TUBE | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| DRY TUBE 48-13
VT-3 | INCORE DRY TUBE | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| JT PHP HLD DN BM 01
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PHP HLD DN BM 02
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PHP HLD DN BM 03
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PHP HLD DN BM 04
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |

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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
----- | | | | | | |
| JT PMP HLD DN BM 05
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 06
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 07
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 08
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 09
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 10
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 11
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 12
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 13
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 14
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |



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SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
 1986 FIRST REFUELING OUTAGE
 OUTAGE SUMMARY REPORT FOR PIPING AND COMPONENTS
 CODE CATEGORY B-N-1
 ITEM NUMBER 813.10
 01/09/87

| CID
---- | DESC
---- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
---- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|-----------------------------|-----------------|-------------------------|-----------------|--------------------|---------------------------|----------------------------|
| EXAM TYPE
----- | | | | | | |
| JT PMP HLD DN BM 15
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 16
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 17
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 18
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 19
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP HLD DN BM 20
VT-3 | HOLD DWN BM/BLT | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| JT PMP 01 INST LINE
VT-3 | WELDS/SUPPORTS | ISI-RPV-INT-001 SHT 3 | RPV | | 09/03/86 | Y |
| JT PMP 02 INST LINE
VT-3 | WELDS/SUPPORTS | ISI-RPV-INT-001 SHT 3 | RPV | | 09/03/86 | Y |
| JT PMP 11 INST LINE
VT-3 | WELDS/SUPPORTS | ISI-RPV-INT-001 SHT 3 | RPV | | 09/03/86 | Y |
| JT PMP 12 INST LINE
VT-3 | WELDS/SUPPORTS | ISI-RPV-INT-001 SHT 3 | 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
----- | | | | | | |
| N2A JT PMP RSTRAINR
VT-3 | WEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2A JT PMP 01
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2A JT PMP 02
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2A RISER BRACE
VT-3 | BRACE/WELD | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2B JT PMP RSTRAINR
VT-3 | WEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2B JT PMP 03
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2B JT PMP 04
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2B RISER BRACE
VT-3 | BRACE/WELD | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2C JT PMP RSTRAINR
VT-3 | WEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2C JT PMP 05
VT-3 | JET PUMP/RISER | 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
----- | | | | | | |
| N2C JT PMP 06
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2C RISER BRACE
VT-3 | BRACE/WELD | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2D JT PMP RSTRAINR
VT-3 | WEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2D JT PMP 07
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2D JT PMP 08
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2D RISER BRACE
VT-3 | BRACE/WELD | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2E JT PMP RSTRAINR
VT-3 | WEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2E JT PMP 09
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2E JT PMP 10
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2E 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
----- | | | | | | |
| N2F JT PHP RSTRAINR
VT-3 | HEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2F JT PHP 11
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2F JT PHP 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 PHP RSTRAINR
VT-3 | HEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2G JT PHP 13
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2G JT PHP 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 PHP RSTRAINR
VT-3 | HEDGE/SCREWS | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |
| N2H JT PHP 15
VT-3 | JET PUMP/RISER | ISI-RPV-INT-001 SHT 3&4 | RPV | | 09/03/86 | Y |

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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
----- |
|------------------------------------|----------------|-------------------------|-----------------|---------------------|---------------------------|----------------------------|
| 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

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



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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 | FH 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

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

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

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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

EXAM TYPE
----- | DESC
----- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
--- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|----------------------------------|-----------------|-----------------------|-----------------|-------------------|---------------------------|----------------------------|
| N4D SPARG WELD E
VT-3 | SPARG-SPARG END | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4D SPARG WELD F
VT-3 | SPARG END-BRKT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG
VT-3 | FW SPARGER | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG BRKT 1
VT-3 | BRACKETS/PINS | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG BRKT 2
VT-3 | BRACKETS/PINS | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG NOZ 1J
VT-3 | SPARG NOZ WELD | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG NOZ 1T
VT-3 | SPARG NOZ WELD | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG NOZ 2J
VT-3 | SPARG NOZ WELD | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG NOZ 2T
VT-3 | SPARG NOZ WELD | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG WELD A
VT-3 | SPARG END-BRKT | 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
----- | | | | | | |
| N4E SPARG WELD B
VT-3 | SPARG-SPARG END | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG WELD C
VT-3 | TEE-SPARG | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG WELD D
VT-3 | TEE-SPARG | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG WELD E
VT-3 | SPARG-SPARG END | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4E SPARG WELD F
VT-3 | SPARG END-BRKT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4F SPARG
VT-3 | FW SPARGER | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4F SPARG BRKT 1
VT-3 | BRACKETS/PINS | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4F SPARG BRKT 2
VT-3 | BRACKETS/PINS | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4F SPARG NOZ 1M
VT-3 | SPARG NOZ WELD | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| N4F SPARG NOZ 1P
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

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

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

EXAM TYPE | DESC
----- | ISI
ISO
----- | SYSTEM
----- | EXAM
NO
----- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|---------------------------|-----------------|-----------------------|-----------------|---------------------|---------------------------|----------------------------|
| 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 |



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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
----- |
|------------------------------------|-----------------|-----------------------|-----------------|--------------------|---------------------------|----------------------------|
| SPARG SUPPORT 05
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 06
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 07
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 08
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 09
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 10
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 11
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |
| SPARG SUPPORT 12
VT-3 | SPARGER SUPPORT | ISI-RPV-INT-001 SHT 1 | RPV | | 09/03/86 | Y |

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



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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
VT-1 | RPV BELT ATTACH | ISI-RPV-INT-001 SHT 4 | RPV | | 09/03/86 | Y |
| N2A RISR SUP WELD B
VT-1 | RPV BELT ATTACH | ISI-RPV-INT-001 SHT 4 | RPV | | 09/03/86 | Y |
| N2F RISR SUP WELD A
VT-1 | RPV BELT ATTACH | ISI-RPV-INT-001 SHT 4 | RPV | | 09/03/86 | Y |
| N2F RISR SUP WELD B
VT-1 | RPV BELT ATTACH | ISI-RPV-INT-001 SHT 4 | RPV | | 09/03/86 | Y |

TALLY ITEM B13.20 4



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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
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/03/86 | N |
| DRYER SUP BRKT B
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/10/86 | N |
| DRYER SUP BRKT C
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/10/86 | N |
| DRYER SUP BRKT D
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/10/86 | N |
| HLD DWN BRKT WELD A
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/06/86 | Y |
| HLD DWN BRKT WELD B
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/06/86 | Y |
| HLD DWN BRKT WELD C
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/06/86 | Y |
| HLD DWN BRKT WELD D
VT-3 | RPV ATTACH WELD | ISI-RPV-INT-001 SHT 2 | RPV | | 09/06/86 | Y |

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

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

G8B2031-HW-1C
SUR | P-LUG/H8 | ISI-G8B-203-1-H | CS | 200195 | 08/07/86 | Y |
| G8B2031-HW-1D
SUR | P-LUG/H8 | ISI-G8B-203-1-H | CS | 200195 | 08/07/86 | Y |
| G8B2031-HW-1E
SUR | P-LUG/H8 | ISI-G8B-203-1-H | CS | 200195 | 08/07/86 | Y |
| G8B2031-HW-1F
SUR | P-LUG/H8 | ISI-G8B-203-1-H | CS | 200195 | 08/07/86 | Y |
| G8B2031-HW-1G
SUR | P-LUG/H8 | ISI-G8B-203-1-H | CS | 200195 | 08/07/86 | Y |
| G8B2031-HW-1H
SUR | P-LUG/H8 | ISI-G8B-203-1-H | CS | 200195 | 08/07/86 | Y |
| DBB2181-HW1A
SUR | P-PLT/H02 | ISI-DBB-218-1-H | FW | 210140 | 08/18/86 | Y |
| DBB2181-HW1B
SUR | P-PLT/H02 | ISI-DBB-218-1-H | FW | 210140 | 08/18/86 | Y |
| DBB2181-HW1C
SUR | P-PLT/H02 | ISI-DBB-218-1-H | FW | 210140 | 08/18/86 | Y |
| DBB2181-HW1D
SUR | P-PLT/H02 | ISI-DBB-218-1-H | FW | 210140 | 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

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

EXAM TYPE
----- | DESC
---- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
---- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|----------------------------------|--------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| DBB2211-HW10
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
---- | DESC
----- | ISI
ISO
---- | SYSTEM
----- | EXAM
NO
---- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|---|---------------|--------------------|-----------------|--------------------|---------------------------|----------------------------|
| EXAM TYPE

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 |



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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
----- |
|---------------------------|---------------|-------------------|-----------------|---------------------|---------------------------|----------------------------|
| GBB2051-FH-3
SUR | V-P | ISI-GBB-205-1 | RHR | 270580 | 09/01/86 | Y |

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 CS.21
 01/09/87

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

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

| CID

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



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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

G8B2062-2-B
SUR | T-P | ISI-G8B-206-2 | RHR | 270240 | 09/05/86 | Y |
| G8B2062-2-B
VOL | T-P | ISI-G8B-206-2 | RHR | 270240 | 09/05/86 | Y . |

TALLY ITEM C5.21 22



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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
SUR | FL-E | ISI-GBB-201-4 | CS | 200200 | 08/07/86 | Y |
| GBB2014-8-A
SUR | P-FL | ISI-GBB-201-4 | CS | 200190 | 08/07/86 | Y |

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
--- | DESC
--- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
--- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|------------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------------------------|
| EXAM TYPE
----- | | | | | | |
| 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 |

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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
SUR | E-SH | C-199560 | CS | 201540 | 08/07/86 | Y |
| 2P206D-361-5-8
SUR | PLT-SH | C-199560 | CS | 201550 | 08/07/86 | Y |

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



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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

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

TALLY ITEM D2.20 3

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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
VT-3 | H143/4 INT ATT | ISI-GBC-201-10-H | MS | 320340 | 09/06/86 | Y |
| GBC20112-H254-IA
VT-3 | H254/4 INT ATT | ISI-GBC-201-12-H | MS | 320180 | 09/05/86 | Y |
| GBC20113-H180-IA
VT-3 | H180/4 INT ATT | ISI-GBC-201-13-H | MS | 320440 | 09/06/86 | Y |
| GBC20113-H186-IA
VT-3 | H186/4 INT ATT | ISI-GBC-201-13-H | MS | 320220 | 09/06/86 | Y |
| HRC2121-H15-IA
VT-3 | H15/1 INT ATT | ISI-HRC-212-1-H | RHRSH | 340140 | 08/11/86 | Y |

TALLY ITEM D2.30 5



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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

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

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



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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
VT-3 | H52/8 INT ATT | ISI-HCC-203-4-H | FPC | 200440 | 08/07/86 | Y |

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



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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
VT-3 | ANCHOR BOLTS | C-199560 | CS | 100040 | 09/12/86 | Y |

TALLY ITEM F-CSP 1



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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
VT-3 | SPRING | ISI-VRR-B31-3-H | RR | 180180 | 08/22/86 | Y |
| RHS200-HA5
VT-4 | SPRING | ISI-VRR-B31-3-H | RR | 180180 | 08/22/86 | Y |
| RHS200-HA6
VT-3 | SPRING | ISI-VRR-B31-3-H | RR | 180200 | 08/22/86 | Y |
| RHS200-HA6
VT-4 | SPRING | ISI-VRR-B31-3-H | RR | 180200 | 08/22/86 | Y |

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
VT-3 | FL-HEAD | ISI-DCA-209-1-H | CS | 100100 | 08/14/86 | Y |
| HRC2061-H12
VT-3 | ANCHOR | ISI-HRC-206-1-H | ESW | 300200 | 08/15/86 | Y |
| DLA2031-HX-9B
VT-3 | FL-HEAD | ISI-DLA-203-1-H | FH | 210200 | 09/11/86 | Y |
| HDB2091-H54
VT-3 | ANCHOR | ISI-HBB-209-1-H | HPCI | 220120 | 08/13/86 | Y |
| DBB2052-H12
VT-3 | ANCHOR | ISI-DBB-205-2-H | MS | 230120 | 09/06/86 | Y |
| GBC20115-HX-400S
VT-3 | FL HEAD | ISI-GBC-201-15-H | MS | 320100 | 09/10/86 | Y |
| GBB2311-H51
VT-3 | ANCHOR | ISI-GBB-231-1-H | MSIV | 240120 | 08/15/86 | Y |
| DBB2211-H7
VT-3 | ANCHOR | ISI-DBB-221-1-H | RCIC | 260240 | 08/18/86 | Y |
| DCA2081-HX-12
VT-3 | FL HEAD | ISI-DCA-208-1-H | RHR | 170200 | 08/11/86 | Y |
| DCB2021-H2
VT-3 | ANCHOR | ISI-DCB-202-1-H | RHR | 271220 | 09/06/86 | Y |



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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 | RHRSH | 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 | ESH | 300160 | 09/01/86 | Y |
| HRC2021-H4
VT-3 | SHAY ST | ISI-HRC-202-1-H | ESH | 300180 | 08/15/86 | Y |
| HRC2041-H1
VT-3 | GUIDE | ISI-HRC-204-1-H | ESH | 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 | FW | 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 |
| G8C2017-H259
VT-3 | SWAY ST | ISI-G8C-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
VT-3 | SWAY ST | ISI-DBB-221-2-H | RCIC | 260200 | 09/10/86 | Y |
| GBB2041-H12
VT-3 | SWAY ST | ISI-GBB-204-1-H | RHR | 270340 | 08/13/86 | Y |
| GBB2044-H20
VT-3 | SWAY ST | ISI-GBB-204-4-H | RHR | 270180 | 08/07/86 | Y |
| GBB2061-H8
VT-3 | SWAY ST | ISI-GBB-206-1-H | RHR | 270500 | 08/14/86 | Y |
| GBB2062-H14
VT-3 | SWAY ST | ISI-GBB-206-2-H | RHR | 270280 | 08/11/86 | Y |
| GBB2122-H57
VT-3 | SWAY ST | ISI-GBB-212-2-H | RHR | 270120 | 08/07/86 | Y |
| HRC2121-H13
VT-3 | SWAY ST | ISI-HRC-212-1-H | RHRSH | 340220 | 08/07/86 | Y |
| HRC2122-H18
VT-3 | SWAY ST | ISI-HRC-212-2-H | RHRSH | 340060 | 08/13/86 | Y |
| SPDCA2061-H3
VT-3 | RIG SUP | ISI-DCA-206-1-H | SBLC | 425000 | 09/10/86 | Y |
| SPDCA2063-H2611
VT-3 | SWAY ST | ISI-SP-DCA-206-3-H | SBLC | 420120 | 08/15/86 | Y |

TALLY ITEM F-RIGD 30

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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

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



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

| CID

EXAM TYPE | DESC
----- | ISI
ISO
---- | SYSTEM
----- | EXAM
NO
---- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|---------------------------|---------------|--------------------|-----------------|--------------------|---------------------------|----------------------------|
| GBC20110-H143
VT-3 | SNJB MECH | ISI-GBC-201-10-H | MS | 320320 | 09/06/86 | Y |
| GBC20110-H143
VT-4 | SNJB MECH | ISI-GBC-201-10-H | MS | 320320 | 09/06/86 | Y |
| GBC20112-H254
VT-3 | SNJB MECH | ISI-GBC-201-12-H | MS | 320160 | 09/05/86 | Y |
| GBC20112-H254
VT-4 | SNJB MECH | ISI-GBC-201-12-H | MS | 320160 | 09/05/86 | Y |
| GBC20113-H186
VT-3 | SNJB MECH | ISI-GBC-201-13-H | MS | 320200 | 09/01/86 | Y |
| GBC20113-H186
VT-4 | SNJB MECH | ISI-GBC-201-13-H | MS | 320200 | 09/01/86 | Y |
| GBC20114-H168
VT-3 | SNJB MECH | ISI-M-201-14-H | MS | 320360 | 09/06/86 | Y |
| GBC20114-H168
VT-4 | SNJB MECH | ISI-M-201-14-H | MS | 320360 | 09/06/86 | Y |
| GBC20118-H111
VT-3 | SNJB MECH | ISI-GBC-201-18-H | MS | 320120 | 09/01/86 | Y |
| GBC20118-H111
VT-4 | SNJB MECH | ISI-GBC-201-18-H | MS | 320120 | 09/01/86 | 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
----- |
|----------------------------------|--------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| GBC20118-H119
VT-3 | SNUB MECH | ISI-GBC-201-18-H | MS | 320240 | 09/05/86 | Y |
| GBC20118-H119
VT-4 | SNUB MECH | ISI-GBC-201-18-H | MS | 320240 | 09/05/86 | Y |
| GBC2017-H106
VT-3 | SNUB MECH | ISI-GBC-201-7-H | MS | 320140 | 09/05/86 | Y |
| GBC2017-H106
VT-4 | SNUB MECH | ISI-GBC-201-7-H | MS | 320140 | 09/05/86 | Y |
| GBC2018-H278
VT-3 | SNUB MECH | ISI-GBC-201-8-H | MS | 320480 | 09/05/86 | Y |
| GBC2018-H278
VT-4 | SNUB MECH | ISI-GBC-201-8-H | MS | 320480 | 09/05/86 | Y |
| DBA2051-H6
VT-3 | SNUB MECH | ISI-DBA-205-1-H | RCIC | 150140 | 09/11/86 | Y |
| DBA2051-H6
VT-4 | SNUB MECH | ISI-DBA-205-1-H | RCIC | 150140 | 09/11/86 | Y |
| DBB2151-H11
VT-3 | SNUB MECH | ISI-DBB-215-1-H | RHR | 270140 | 08/07/86 | Y |
| DBB2151-H11
VT-4 | SNUB MECH | ISI-DBB-215-1-H | RHR | 270140 | 08/07/86 | Y |

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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
----- |
|----------------------------------|---------------|-------------------|-----------------|-------------------|---------------------------|----------------------------|
| DBB2151-H51
VT-3 | SNUB MECH | ISI-DBB-215-1-H | RHR | 270160 | 08/07/86 | Y |
| DBB2151-H51
VT-4 | SNUB MECH | ISI-DBB-215-1-H | RHR | 270160 | 08/07/86 | Y |
| DBB2151-H59
VT-3 | SNUB MECH | ISI-DBB-215-1-H | RHR | 270380 | 08/14/86 | Y |
| DBB2151-H59
VT-4 | SNUB MECH | ISI-DBB-215-1-H | RHR | 270380 | 08/14/86 | Y |
| DCA2081-H5
VT-3 | SNUB MECH | ISI-DCA-208-1-H | RHR | 160120 | 09/06/86 | Y |
| DCA2081-H5
VT-4 | SNUB MECH | ISI-DCA-208-1-H | RHR | 160120 | 09/06/86 | Y |
| GBB2041-H3
VT-3 | SNUBMECH | ISI-GBB-204-1-H | RHR | 270400 | 08/13/86 | Y |
| GBB2041-H3
VT-4 | SNUBMECH | ISI-GBB-204-1-H | RHR | 270400 | 08/13/86 | Y |
| GBB2051-H93
VT-3 | SNUB MECH | ISI-GBB-205-1-H | RHR | 270420 | 08/13/86 | Y |
| GBB2051-H93
VT-4 | SNUB MECH | ISI-GBB-205-1-H | RHR | 270420 | 08/13/86 | 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
----- |
|----------------------------------|---------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| 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 | RHRSH | 340120 | 08/07/86 | Y |
| HRC2121-H15
VT-4 | SNUB MECH | ISI-HRC-212-1-H | RHRSH | 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
----- |
|----------------------------------|--------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| RHS200-H28
VT-3 | SNUB MECH | ISI-VRR-B31-4-H | RR | 180380 | 09/01/86 | Y |
| RHS200-H28
VT-4 | SNUB MECH | ISI-VRR-B31-4-H | RR | 180380 | 09/01/86 | Y |
| RHS200-H38
VT-3 | SNUB MECH | ISI-VRR-B31-4-H | RR | 180340 | 09/05/86 | Y |
| RHS200-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 | RMCU | 190120 | 09/10/86 | Y |
| DCA2022-H4
VT-4 | SNUB MECH | ISI-DCA-202-2-H | RMCU | 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

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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

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 | ESH | 300100 | 08/18/86 | Y |
| HRC2031-H2
VT-4 | VAR SUP | ISI-HRC-203-1-H | ESH | 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 | FH | 110140 | 09/24/86 | Y |
| DLA2011-H2
VT-4 | VAR SUP | ISI-DLA-201-1-H | FH | 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
---- | DESC
---- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
---- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|--|--------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| EXAM TYPE

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

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

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

| CID

EXAM TYPE
----- | DESC
----- | ISI
ISO
----- | SYSTEM
----- | EXAM
NO
----- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|------------------------------------|---------------|---------------------|-----------------|---------------------|---------------------------|----------------------------|
| EBB2031-H1
VT-3 | VAR SUP | ISI-EBB-203-1-H | RCIC | 260120 | 08/18/86 | Y |
| EBB2031-H1
VT-4 | VAR SUP | ISI-EBB-203-1-H | RCIC | 260120 | 08/18/86 | Y |
| HBB2012-H1
VT-3 | VAR SUP | ISI-HBB-201-2-H | RCIC | 260140 | 08/18/86 | Y |
| HBB2012-H1
VT-4 | VAR SUP | ISI-HBB-201-2-H | RCIC | 260140 | 08/18/86 | Y |
| DBB2071-H4
VT-3 | VAR SUP | ISI-DBB-207-1-H | RHR | 270540 | 08/13/86 | Y |
| DBB2071-H4
VT-4 | VAR SUP | ISI-DBB-207-1-H | RHR | 270540 | 08/13/86 | Y |
| DCA2101-H5
VT-3 | VAR SUP | ISI-DCA-210-1-H | RHR | 271240 | 09/06/86 | Y |
| DCA2101-H5
VT-4 | VAR SUP | ISI-DCA-210-1-H | RHR | 271240 | 09/06/86 | Y |
| DCA2102-H1
VT-3 | VAR SUP | ISI-DCA-210-2-H | RHR | 271260 | 09/25/86 | Y |
| DCA2102-H1
VT-4 | VAR SUP | ISI-DCA-210-2-H | RHR | 271260 | 09/25/86 | 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
----- |
|----------------------------------|--------------|-------------------|-----------------|--------------------|---------------------------|----------------------------|
| 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 | RHRSH | 340020 | 08/13/86 | Y |
| HRC2123-H1
VT-4 | VAR SUP | ISI-HRC-212-3-H | RHRSH | 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

EXAM TYPE
----- | DESC
----- | ISI
ISO
--- | SYSTEM
----- | EXAM
NO
--- | ANII
SIGN-OFF
----- | PROGRAM
CREDIT
----- |
|----------------------------------|---------------|-------------------|-----------------|-------------------|---------------------------|----------------------------|
| 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 | RWCU | 190240 | 09/10/86 | Y |
| DBA2012-H7
VT-4 | VAR SUP | ISI-DBA-201-2-H | RWCU | 190240 | 09/10/86 | Y |
| DCA2031-H3
VT-3 | VAR SUP | ISI-DCA-203-1-H | RWCU | 190280 | 09/11/86 | Y |
| DCA2031-H3
VT-4 | VAR SUP | ISI-DCA-203-1-H | RWCU | 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 *.

| | <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|-------|-------------------|-------------|-------------------|-------------|
| 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 | |



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| | <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|-------|-------------------|-------------|-------------------|-------------|
| 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 | |



| <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|-------------------|----------------|-------------------|-------------|
| 98. | DCA-228-H5071 | 14420 | |
| 99. | DCA-232-H9001 | 24368 | 4 |
| 100. | DCA-207-H5003 | 5608 | |
| 101. | DBA-202-H5001 | 14460 | |
| 102. | DBA-204-H2000 | 12958 | |
| 103. | DBA-206-H2 | 14401 | |
| 104. | DBA-208-H1 | 14466 | |
| 105. | DBA-208-H3 | 24384 | |
| 106. | DBA-208-H6 | 14409 | |
| 107. | DBA-208-H7 | 24375 | |
| 108. | DBA-209-H2 | 24372 | |
| 109. | DBA-210-H1 | 24381 | |
| 110. | DBA-211-H1 | 24379 | |
| 111. | DBA-211-H3 | 24380 | |
| 112. | DBA-214-H3000 | 14455 | |
| 113. | DBA-214-H3001 | 14456 | |
| 114. | DBA-214-H3004 | 14457 | |
| 115. | DBA-214-H3006A | 24373 | |
| 116. | DBA-214-H3006B | 24378 | |
| 117. | DBA-215-H3002 | 28729 | |
| 118. | DBA-215-H3004 | 17197 | |
| 119. | DBA-216-H3002 | 14452 | |
| 120. | DBA-219-H5003 | 4788 | |
| 121. | DBB-208-H13 | 21067 | 12 |
| 122. | DBB-208-H17 | 14468 | |
| 123. | DBB-208-H82 | 9749 | |
| 124. | DBB-208-H83 | 17198 | |
| 125. | DBB-208-H85 | 24387 | |
| 126. | DBB-208-H87 | 14462 | |
| 127. | DBB-208-H89 | 14469 | |
| * 128. | DBB-209-H18 | 14417 | |
| 129. | DBB-215-H5007 | 14449 | |
| 130. | DBB-223-H3004 | 23614 | |
| 131. | DBB-224-H3004 | 17191 | |
| 132. | DBB-225-H3003 | 17184 | |
| 133. | DBB-225-H3004 | 17185 | |
| 134. | DBB-226-H3001 | 17192 | |
| 135. | DBB-226-H3003 | 14471 | |
| 136. | DBB-226-H3005 | 23608 | |
| * 137. | DBB-222-H55A | 14408 | |
| * 138. | DBB-222-H55B | 14406 | |
| 139. | DBD-214-H9004 | 14432 | |
| 140. | DBD-214-H9005 | 14433 | |
| 141. | DBD-214-H9006 | 12972 | |
| 142. | GBB-234-H3 | 24382 | |
| 143. | HBB-208-H5004 | 14405 | |
| * 144. | HBB-208-H54 | 14440 | |
| * 145. | HBB-213-H4 | 14453 | |
| * 146. | HBB-225-H2 | 14438 | |
| * 147. | HBB-226-H2 | 14443 | |
| 148. | HBB-208-H5008 | 14407 | |
| 149. | HBB-251-H5005 | 14423 | |



| | <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|--------|-------------------|-------------|-------------------|-------------|
| 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):

| <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|----------------------|-------------|-------------------|-------------|
| 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):

| | <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|-----|-------------------|-------------|-------------------|-------------|
| 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 |



| <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> | |
|-------------------|--------------|-------------------|-------------|------|
| 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 |

| | <u>HANGER NO.</u> | <u>SIZE</u> | <u>SERIAL NO.</u> | <u>NOTE</u> |
|------|-------------------|-------------|-------------------|-------------|
| 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

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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 1 of 288

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

W/A V64446

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 RHR Service Water

2-16A-III

5. (a) Applicable Construction Code ASME TC 19 71 Edition, WTR Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 20401

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | Rechtel | N/A | N/A | HRC-212-1-5 | 1983 | Replaced | Y |
| Pipe Flange | GLYON ALLOYS | HT # 5783 | N/A | HRC-212-1-5 | 1983 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ N/A
Other ☐ Pressure 200 psi Test Temp. 74 °F
11-14-86 11-14-86

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

(12/82)

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

Page 2 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 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 14

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 ARLWRIGHT BOSTON MEERS MUTUAL INS. CO. of WALTHAM, MA.

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
Inspector's Signature

Commissions

NB7990 PA2204

NIBS 15

National Board, State, Province, and Endorsements

Date Nov. 19

1986

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

Page 3 of 200

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

NA V64447
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 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 70W81

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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-212-3-5 | 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 ☒
Other ☐ Pressure 5200 psi Test Temp. 69.71 °F

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

(12/82)

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

Page 4 of 200

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 REPORT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NO NC

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas M. C...
Owner or Owner's Designee, Title

Supt. of Plant

Date November 14, 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 AREWRIGHT BOSTON MFGS. 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
Inspector's Signature

Commissions NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date Nov. 19, 1986

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

Page 5 of 283

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. 17603
Address

Unit 2

WA V6461C
Repair Organization P.O. No., Job No., etc.

3. Work Performed by OWNER
Name
Address

Type Code Symbol Stamp NA

Authorization No. N/A

Expiration Date N/A

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

5. (a) Applicable Construction Code ASME III 19 74 Edition, 575 Addenda, N242-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 81 10-24-X6

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 6 of 288

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 MEERS, 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. Roquette Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 3 19 86

FORM R-1, REPORT OF WELDED ☒ REPAIR OR ☐ ALTERATION

As Required by the Provisions of The National Board Inspection Code

Page 7 of 203

1. Work done by Pennsylvania Power and Light Two North Ninth Street 4273-LH
(Name and address of repair or alteration organization) (Serial No.)
Owner Allentown, Pa. 18101
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 Name of Manufacturer Kemp Mfg. Co.
(Boiler, Pressure Vessel)
5. Identifying Nos. 4273-LH 4273 480721 2F-116A 1976
(Mfg. Serial No.) (National Board No.) (Jurisdiction) (Other) (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 C.D.

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report: Hydrostatic Pressure Test, if Applied 188 psi

(Name of part, item number, mfr'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 conform to The National Board Inspection Code. (repair alteration)
Date 1-21-85 Signed Pennsylvania Power & Light Co. by [Signature]
(Repair Alteration Organization) (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 Commissions PA 2204
(Inspector) (National Board, State, Province and No.)

1. The first part of the document is a list of names and dates, arranged in a vertical column on the left side of the page. The names are written in a cursive script, and the dates are written in a simpler, more legible font. The list appears to be a record of some kind, possibly a list of births or deaths, given the format of the entries.

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

Page 8 of 200
218 VIII

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 Name of Manufacturer KEMP MANUFACTURING CO.
(Boiler, Pressure Vessel)
5. Identifying Nos. 4274-LH 4274 480722 2F116B 1976
(Mfg. Serial No) (National Board No) (Jurisdiction) (Other) (Year Built)
6. Description of Work: REPLACE BURNED OUT HEATER ELEMENT AND DAMAGED HEATER
(Use back, separate sheet, or sketch if necessary)
ELEMENT TUBE IN AIR DRYER VESSEL. Requires removal and cracking
OF DRYER VESSEL head I/A # V53408

7. Remarks: Attached are Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors for the following items of this report: HYDROSTATIC Pressure Test, if Applied 122 psi
NONE

(Name of part, item number, mfg'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 conform to
The National Board Inspection Code. (repair alteration)
Date 6-16-86 Signed Penna. Power & Light Co. by James M. Cunningham
(Repair Alteration Organization) (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 MEGRS MUTUAL INS. CO. of WALTHAM, MASS. have inspected the work described in this Data Report on JULY 13, 1985 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.
FACTORY MUTUAL SYSTEM

Date JUNE 30, 1986 William R. Rogness Commissions NB7903 PA2204
Inspector Nat'l Board, State, Province and No

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a discussion of the results of the study and their implications.

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

Page 9 of 2003

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 Name of Manufacturer Lonergan
(Boiler Pressure Vessel)
5. Identifying Nos. 510138-2-18-1 N/A N/A N/A 1982
(Mfg. Serial No) (National Board No) (Jurisdiction) (Other) (Year Built)
6. Description of Work: Re-fit and welded inlet and outlet flange for proper alignment of
(Use back separate sheet or sketch if necessary)
valve PSV-22643 Work performed under PP&L Work Authorization #S-24926.

Sgs 22.5A 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

CERTIFICATE OF COMPLIANCE

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

Date 9-25-83 Signed Penn Power & Light Co by H. Keen
(Repair or Alteration Organization) (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 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. 5, 1983 William R. Rogers III Commissions PA 2204
(Inspector) (Factory Mutual System) (Nat'l Board, State, Province and No)



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

Page 10 of 298

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 Name of Manufacturer Lonergan
(Boiler Pressure Vessel)
5. Identifying Nos. 510138-2-18-2 N/A N/A N/A 1982
(Mfg. Serial No.) (National Board No.) (Jurisdiction) (Other) (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-226481 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

CERTIFICATE OF COMPLIANCE

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

Date 9-28-83 Signed Penn Power & Light Co by [Signature]
(Repair/Alteration Organization) (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 MEGRS. MUTUAL INS. CO of WALTHAM MA, have inspected the work described in this Data Report on AUGUST 10, 1982 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 Commissions PA 2204
(Inspector) (Nat'l Board, State, Province and No.)



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

Page 11 of 288

1. Owner Pennsylvania Power & Light Co. Date 12/31/85
Name
2 No. 4th St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Box 467, Berwick, PA 18603 W.A. 4-33753
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Primary Containment Instrument Gas-System 2S-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) |
|----------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Cent. 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.

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FORM NIS-2 (Back)

9. Remarks NIA

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 NIA

Certificate of Authorization No. NIA

Expiration Date NIA

Signed Thomas M. Crummen 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 MFGS. 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
Inspector's Signature

Commissions NB 7980 PA 2204 NIBS IS
National Board, State, Province, and Endorsements

Date JAN. 3 19 86

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

Page 13 of 283

1. Owner PENNSYLVANIA POWER & LIGHT CO. Date 1/20/86
Name
TWO NORTH 9TH ST. ALLENTOWN, PA 18101
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Sheet 1 of 1
Name
PO Box 467, BERWICK, PA 18603 Unit 2
Address WA U-33754
Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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.

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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 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 MEGRS. 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
Inspector's Signature

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

Date FEB. 12 1986

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

Page 15 of 288

1. Owner Pennsylvania Power & Light, Co.

Name

2 No. 9th St., Allentown, PA 18101

Address

2. Plant Susquehanna Steam Electric Station

Name

P.O. Box 467, Berwick, PA 18603

Address

3. Work Performed by owner

Name

Address

4. Identification of System Primary Containment Instrument Gas - System 25A-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 '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 | PLV22643 | 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.

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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 NIA

Certificate of Authorization No. NIA Expiration Date NIA

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 MEGRS. 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
Inspector's Signature

Commissions NB7980 PA2204 NIBSIS
National Board, State, Province, and Endorsements

Date JAN. 14 19 86

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

Page 17 of 288

1. Owner Pennsylvania Power and Light Co
Name
2 North 9th St, Allentown PA 18101
Address
2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467 Berwick PA 18603
Address
3. Work Performed by OWNER
Name
Address
4. Identification of System INST. GAS 2-25A-III
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

Date 11-5-86
Sheet 1 of 1
Unit 2
WA V63225
Repair Organization P.O. No., Job No., etc.
Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 1" Globe Valve | Borg Warner | 15316 | N/A | 226-064 | 1976 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Body To bonnet weld Ground out To Permit Disassembly, Repair 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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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 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 MECH. 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. Roguski Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26, 19 86

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
WA V63226
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 Circ. Inst. GAS 3-25A-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 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 | Borg Warner | 15360 | N/A | 326-063 | 1976 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Body To Be Weld Ground Cut To Permit 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair 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 AREWRIGHT BOSTON MFG. 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.

FACTORY MUTUAL SYSTEM

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

Date Nov. 10, 19 86

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

Page 21 of 200

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

WA V63229
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. INET. GAS 3-25A-III

5. (a) Applicable Construction Code ASME III 19 71 Edition, 4.7.2 Addenda, NA 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Globe Valve | Borg WARNER | 14934 | N/A | 226-065 | 1976 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Body to Penet 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed W. M. Cunningham 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 MFG. 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 B. Reguette
Inspector's Signature

Commissions NB7980 PA2304 NIBS IS
National Board, State, Province, and Endorsements

Date Nov 26 19 86

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

Page 23 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, Pottsville PA 17853
Address

WPA 63230
Repair Organization P.O. No., Job No., etc.

3. Work Performed by ENVIRO
Name

Type Code Symbol Stamp NA

Authorization No. NA

Expiration Date NA

Address

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 W 72

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 1H1R | N/A | 226-066 | 1976 | Replaced | Y |
| MAIN DISC | BORG WARNER | N/A | N/A | 226-066 | 1980 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Body To bracket weld grown out, lower valve trimmings, Renewal body To bracket

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

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

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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 repikemen? conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 12-12, 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 MEGRS 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 P12204 NIBS 15
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 6, 19 87

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

As Required by the Provisions of the ASME Code Section XI

Page 25 of 288

1. Owner PENNSYLVANIA Power AND Light Co.
Name

Date 11-5-81

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 Y6.3558
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 Primary Cont. Inst. GAS 2-25A-TII

5. (a) Applicable Construction Code ASME III 19 80 Edition, w/ 20 VALVE, P.P.C. Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W21

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 Extension 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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FORM NIS-2 (Back)

9. Remarks NPV-1
N/A 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 MFGS. 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 P. Rogers III Commissions NB7920 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements
Date Nov. 18, 19 86

1. Owner PENNSYLVANIA Power AND Light Co.
NameDate 11-5-862 North 9th ST. Allentown PA 18101
AddressSheet 1 of 12. Plant SUSQUEHANNA STEAM Electric STATION
NameUnit 2P.O. Box 467 Berwick PA. 18603
AddressWA V 63559
Repair Organization P.O. No., Job No., etc.3. Work Performed by OWNER
NameType Code Symbol Stamp NAAuthorization No. NAExpiration Date NA

Address

4. Identification of System PRIMARY CONT. TEST GAS2-25A-III5. (a) Applicable Construction Code ASME III 19 80 Edition, USC Addenda, NA Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 USC

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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-22647 | 1984 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove body to bonnet weld, Repair INTERNALS, Reinstall bonnet8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ EXEMPT
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

Page 28 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 [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 MFG. CO. 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.

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

Date Nov. 17 1986

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

Page 28 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO.
Name
2 North 9th ST, AULENTOWN PA. 18101
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick PA. 18603
Address
3. Work Performed by OWNER
Name
Address
4. Identification of System PRIMARY CONT. INST. GAS
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 74 Edition

Date 11-5-86
Sheet 1 of 2
Unit 2
WA V64636
Repair Organization P.O. No., Job No., etc.
Type Code Symbol Stamp NA
Authorization No. NA
Expiration Date NA

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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. LONGERGAN | 761476 | N/A | PSV-22643 | 1972 | Replaced | Y |
| DISC | J.E. LONGERGAN | 16-3541 | N/A | PSV-22642 | 1935 | Replacement | Y |
| SPRING | J.E. LONGERGAN | 155764 | N/A | PSV-22643 | 1972 | Replaced | Y |
| SPRING | J.E. LONGERGAN | 628476 | N/A | PSV-22643 | 1985 | Replacement | Y |
| SPRING WASHERS | J.E. LONGERGAN | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 JM Cummings Date November 7, 19 86
Owner or Owner's Designee, Title Supv. of Plant

CERTIFICATE OF INSERVICE INSPECTION

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.

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

Date Nov 18 19 86

Date 11-5-86

Sheet 2 of 2

Unit 2
WA 64656
Repair Organization P.O. No., Job No., etc.

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

2-25A-III

(a) Applicable Construction Code ASME III 19 74 Edition, 4174 Addenda, 11-24.2

6. Identification of Components Repaired or Replaced and Replacement Components

[illegible]



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

Page 32 of 288

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

INA V64675
Repair Organization P.O. No., Job No., etc.

3. Work Performed by OWNER
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Primary CONT. INST. Gas 225A-TLL

5. (a) Applicable Construction Code ASME III 19 77 Edition, 80 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 | 75KH-210-3 | N/A | SV-22643 | 1981 | Replaced | Y |
| Globe Valve | Target Rock | 75KH-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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 33 of 288

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 MEERS 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. Rogerson Commissions NB7980-PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 15, 19 86

Page 34 of 205

Date 12-3-86

Sheet 2 of 2

Unit 2
WA V64675
 Repair Organization P.O. No., Job No., etc.

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

225A-III

80 12-15-56

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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 35 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 Y 64696
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 PRIMARY CONT. TRST. GAS 225A-III

5. (a) Applicable Construction Code ASME III 19 74 Edition, 11.7-4 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 2001

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| SEPT skwie | PL Tech | N/A | N/A | PCV-22643 | 1979 | replaced | Y |
| SEPT skwie | Target Rock | NCR 86 1369 | N/A | PCV-22643 | 1984 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove Tackwelds AND Reflow Valve Insp., Replace parts AND reweld Ticks.

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

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

(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-2 (Back)

9. Remarks

4012-74-26

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 Robert By C
Owner or Owner's Designee, Title

Date 12-12, 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 MEELS 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
Inspector's Signature

Commissions NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date JAN. 6, 1987

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

Page 37 of 288

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

Date 12-4-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 467 Berwick PA. 18603
Address

Unit 2
WA V64697
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 Cont. Turb. Gas 225A-III

5. (a) Applicable Construction Code ASME III 19 74 Edition, W72 Addenda, NONE Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Pressure Valve | TARGET Rock | 75KH-401-4 | N/A | PCV-2264B | 1979 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove Tackwelds, Remove 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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

Type Code Symbol Stamp

NDAIC

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

[Signature]

Date

December 4, 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 MFG. 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. Rogus III
Inspector's Signature

Commissions

NB7980-PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date DEC. 15

1986

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

Page 39 of 208

1. Owner Pennsylvania Power and Light Co Date 11-5-86
Name
2 North 9th St, Allentown PA 17101 Sheet 1 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467 Berwick Pa 18603 Repair Organization P.O. No., Job No., etc. WA V63025
Address
3. Work Performed by CUNER Type Code Symbol Stamp NA
Name
Authorization No. NA
Expiration Date NA
4. Identification of System RHR Pump Room Cooling RV1, RV2 FF-21122B
Reactor RV1, RV2 FP-21122D 2-346-III
NHT 10 24-86
5. (a) Applicable Construction Code ASME III 19 71 Edition, N17.3 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 DISCS ON 1/2" 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 40 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 [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 MFGS. 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 NB7930 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17, 19 86

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Date 11-5-86 ⁰

Sheet 2 of 2

Unit 2
WA 663025
 Repair Organization P.O. No., Job No., etc.

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

5. (a) Applicable Construction Code ASCE 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

[illegible]



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

Page 42 of 288

1. Owner PENNSYLVANIA Power AND Light Co.
Name

Date 11-24-26

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

Authorization No. NA

Expiration Date NA

Address

4. Identification of System REACTOR Bldg. HEATED WATERS

2-34K-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 7.3 Addenda, 1622 1516-1

(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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Valve Wedge | P.S.F. | HT# 1J80 | N/A | HV-28791A3 | 1976 | Replaced | Y |
| VALVE Wedge | Pacific VALVES | 0505-1 | N/A | HV-28791A2 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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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 ASME

Certificate of Authorization No. N-2 Expiration Date 11/24

Signed Joe Blakeslee 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 ARLWEIGHT BOSTON MFCES 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. Rignotti Commissions NB7980 PA2204 NIES 15
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 44 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

WA V64552
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 FEDUWATER 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 20W81

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | JOS. DYSON | HT # 44791576 | N/A | HV-2F032B | 1975 | Replaced | Y |
| Brg. Cover NUTS | TEXAS BOLT | HT # KG5B | N/A | HV-2F032B | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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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 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.
Owner or Owner's Designee, Title

Supt. of Plant

Date November 14, 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 MFGS. 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.

William R. Rogers III
Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date Nov. 19

1986

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

Page 46 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name
Two North Ninth St., Allentown, PA 18101
Address
- E&S Const./WA # V63913
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System 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 | Replacement | No |
| <i>MECHANICAL SHOCK</i> | <i>PACIFIC SCIENTIFIC</i> | <i>07386</i> | <i>N/A</i> | <i>RWS-200-H33</i> | <i>N/A</i> | <i>REPLACED</i> | <i>NO</i> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 Mfgs., 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
Inspector's Signature

Commissions

Factory Mutual System
PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 2, 1986

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. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E&S Const./WA #V63878
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System 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 | Replacement | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 JA 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS JS
National Board, State, Province, and Endorsements

Date DEC. 2 1986

FORM N18-2 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, 1986Two North Ninth St., Allentown, PA

Address

Sheet 1 of 12. Plant Susquehanna Steam Electric Station

Name

Unit 2P.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 NoneTwo North Ninth St., Allentown, PA 18101

Address

Authorization No. N/AExpiration Date N/A4. Identification of System Div II RHR LPCI SDC, System 249F, Class 15. (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-210-H5006 | N/A | REPLACED | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work: Replace existing snubber with functionally tested replacement8. 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 Ja. Blokeslee 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 2 1986

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

Page 52 of 200

1. Owner Pennsylvania Power & Light Co.
Name
Two Ns. 4th St., Allentown, PA 18101
Address

Date 12/29/85Sheet 1 of 1

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

Unit 2

Work Authorization - U-43016
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 Residual Heat Removal - System 44G Class 1

5. (a) Applicable Construction Code ASME III 19 71 Edition, WINTER '72 Addenda, 1516-K, 1534, 1535-2, 1534-2
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Winter '80, XC B 11/2/86

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 | H# 69559 | N/A | HV-251F015B | 1976 | Replaced | YES |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replace valve seat ring/Resurfaced Disc with weld buildup.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1235 psi; Test Temp. 635 °F

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

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FORM NIS-2 (Back)

9. Remarks NIA

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 NIA

Certificate of Authorization No. NIA

Expiration Date NIA

Signed

Thomas M. Germaine
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 ARKWEIGHT BOSTON MEGEE 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
Inspector's Signature

Commissions: NB 7980 PA2204 NTR 15
National Board, State, Province, and Endorsements

Date JAN. 3, 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page 54 of 288

1. Owner Pennsylvania Power & Light Co. Date 12/30/95
 Name
Two No. 9th St., Allentown, PA 18101 Sheet 1 of 1
 Address
2. Plant Susquehanna Steam Electric Station Unit 2
 Name
P.O. Box 467, Berwick, PA 18603 Work Authorization - V 43350
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by owner Type Code Symbol Stamp NIA
 Name Authorization No. NIA
 Address Expiration Date NIA
4. Identification of System Residual Heat Removal - System 49 G-CLASS 1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, NIA Code Case 1516-K, 1534, 1535-2, 1334-2
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 / Winter '80 FCB 112186
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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. | Anchors DARLING VALVE CO. | YES 11/2/85
E 5855-15-1 | 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.

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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 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. Cunningham 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 MPGRS. 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

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. Date 12/30/85
Name
2 N. 9th St., Allentown, PA 18101 Sheet 1 of 1
Address
 2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Benwick, PA 18603 W.A. V-44657
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Residual Heat Removal - System 49G-Class 1
Address
 5. (a) Applicable Construction Code ASME III 1971 Edition, Winter '72 Addenda, N/A Code Case 1516-K, 1534, 1535-2, 1539-2
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/ Winter '81 *CB Report 1/07/86*

46. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | ES955-15-1 | N/A | HV3S1FO15B | 1976 | REPAIRED | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Installed wear strip and guide rib

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks NIA

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 NIA

Certificate of Authorization No. NIA

Expiration Date NIA

Signed Thomas M. Cimin 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 AEKWEIGHT BOSTON MFG CO. 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. Rogerson III
Inspector's Signature

Commissions NB 7980 PA2204 NIBSI
National Board, State, Province, and Endorsements

Date JAN. 14, 1986

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

Page 5B of 200

1. Owner Pennsylvania Power & LIGHT Date 3/6/85
Name
2. NORTH NINTH ST. Allentown, Pa 18101 Sheet 1 of 1
Address
3. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
PO BOX 467 BERWICK, Pa 18603 WORK AUTHORIZATION V43932
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp NA
Name Authorization No. NA
Address Expiration Date NA

4. Identification of System RESIDUAL HEAT REMOVAL 249 G.1
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, 1516-K, 1534 Code Case 1535-2 NA 1334-2
(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. INT VALVE | ANCHOR DARLING | E5855-15-2 | NA | HV251 F015A | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 Thomas W. [Signature] 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 ARKWEIGHT BOSTON MFGS. 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
Inspector's Signature

Commissions NB7980 PA2204 NIBSIF
National Board, State, Province, and Endorsements

Date JAN. 14 1986

249 G - I

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

Page 60 of 288

1. Owner PENNSYLVANIA POWER & LIGHT CO. Date 1/20/86
Name
TWO NORTH 9TH ST. ALLENTOWN, PA 18101
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Sheet 1 of 2
Name
P.O. Box 467, BERWICK, PA 18603 Unit 2
Address WA-V-43947
Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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, 1534-2 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 FO15B | 1984 | REPLACEMENT | YES |
| DISC | EBASCO | SN-32 | N/A | HV-EII-2 FO15B | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks N-2 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]
Owner or Owner's Designee, Title

Date

January 22, 1986

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 MEGRS. 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

Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date FEB. 12

1986

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. Date 1/27/86
Name
Two N. 9th st. Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
PO box 467, Berwick, PA 18603 WA V-44548
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 63 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 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 MEGRS. 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 NIBS II
National Board, State, Province, and Endorsements

Date APRIL 16, 19 86

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 NA

Address

Authorization No. NA

Expiration Date NA

4. Identification of System RHR 2-496-I

5. (a) Applicable Construction Code ASME III 19 74 Edition, W'75 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| VALVE Plug | CABOT Corp | 1810-5-1011-32 | N/A | HV-2F122B | 1978 | Replaced | Y |
| VALVE Plug | MASONIELAN-DRESSER | N00186-522 | N/A | HV-2F122B | 1986 | Replacement | Y |
| VALVE Stem | N/A | N/A | N/A | HV-2F122B | N/A | Replaced | AYN |
| VALVE Stem | MASONIELAN-DRESSER | HT# 856852 | N/A | HV-2F122B | 1985 | Replacement | AYN |
| | | | | | | | |

7. Description of Work REWORK VALVE INTERNALS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ ~~EXEMPT~~ 1523-86
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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 65 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 MEERS 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. Pigeo III
Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date Nov. 21

19 86

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

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

Page 66 of 238

1. Owner Pennsylvania Power & Light
Name
12 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 U33639

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 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 W. R. Rogers III Date 1-21-85
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 MFGS 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

FACTORY MUTUAL SYSTEM
Commissions PA 2204
National Board, State, Province, and Endorsements

Date JAN. 22 19 85

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

Page 68 of 208

1. Owner Pennsylvania Power & Light Co. Date April 1, 1986
Name
- Two N. 9th st. Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
- PO box 467, Berwick, PA 18603 WA U-33663
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Residual Heat Removal - System 49A - Class 2
5. (a) Applicable Construction Code ASME III 1980 Edition, Winter '80 Addenda, 1534 Code Case 1516-1
 (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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks ^{JLB 4/1/86} ~~N/A~~ 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 Thomas M. [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 APKWEIGHT BOSTON MECHS. 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
Inspector's Signature

Commissions NB7980 PA2204 NIBS I
National Board, State, Province, and Endorsements

Date APRIL 28 19 86

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

Page 70 of 288

1. Owner Pennsylvania Power & Light Co. Date 12/31/85
Name
 2. Two No. 4th St., Allentown, PA 18101 Sheet 1 of 1
Address
 3. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 Work Authorization U-34092
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
 4. Identification of System Residual Heat Removal-System AAA-class 2
 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 / winter 190 JB 11/2/86

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 Danling | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 MFGS. 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 Commissions NB7980 PA2204 NIBS 15
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 3 1986

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

Page 72 of 283

1. Owner PENNSYLVANIA Power AND Light Co. Date 11-6-86
Name
2 North 9th ST, ALLENTOWN PA. 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM Electric STATION Unit 2
Name
P.O. Box 467 Berwick PA. 18603 WA V44644
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp NA
Name Authorization No. NA
Address Expiration Date NA
4. Identification of System RHR 2-49A-II
1622 1516-1
5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, 1567 1335-9 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 | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 73 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 Repaired conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Owner or Owner's Designee, Title

Supt. of Plant

Date November 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 MFG. 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
Inspector's Signature

Commissions IB7930 PA2204 IBS IS
National Board, State, Province, and Endorsements

Date Nov. 12, 1986

1. Owner PENNSYLVANIA Power AND Light Co Date 11-6-86
Name
2 North 9th ST, Allentown PA 18101
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Sheet 1 of 1
Name
P.O. Box 467 Berwick PA 18605
Address Unit 2
N/A V-63110
Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp NA
Name Authorization No. N/A
Address Expiration Date NA
4. Identification of System RHR HV25IF024A 2-49A-IT
5. (a) Applicable Construction Code ASME III 19 71 Edition, 1972 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 70 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 18" Globe VALVE | ANCHOR DARLING | E5854-12-1 | N/A | 25IF024A | 1977 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work TACKWELD DISC TO DISC ^{NUT} ~~WELD~~ NUT PERC INSPECTION OF DISC AND SWAT.
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 8 1/2 in. x 11 in., (2) information in Items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Date Nov. 10, 19 86

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

Page 76 of 200

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th St., Allentown Pa 18101
Address

Date 11/6/86

Sheet 1 of 1

2. Plant Sixtychanna Steam Electric Station
Name
P.O. Box 467 Berwick Pa 18603
Address

Unit 2

WA V6311
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 R4R 2-47A-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 ASME 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 1/4" dia Disc | VULCAN STEEL | R480 | NA | HVEN2F024B | 1977 | Replaced | Y |
| 1/4" dia Disc | ANCHOR BERING | 1 | NA | HVEN2F024B | 1976 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replace Disc AND Disc NUT. Tack weld STEEL 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 77 of 288

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 MFGS. 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. Rogerson Commissions NB7930-PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 13 19 86

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 17603
Address

Unit 2
WIA Y63113
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 RHR 2-49A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, 1980 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 USE

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | ARINCOR | 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 BURNET WELD, REMOVE INTERNALS, REINSTALL BURNET 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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, 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 MFGS. 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
Inspector's Signature

Commissions

NB7980 PA2204 NIBS IS

National Board, State, Province, and Endorsements

Date Nov. 17, 1986

1. Owner Pennsylvania Power and Light Co
Name
2 North 9th ST. Allentown Pa 18101
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick Pa 18603
Address
3. Work Performed by OWNER
Name
Address
- Date 11-5-86
Sheet 1 of 1
Unit 2
WA V63113
Repair Organization P.O. No., Job No., etc.
Type Code Symbol Stamp NA
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 | SV-22360B | 1982 | Replaced | Y |
| main disc | Target Rock | 1524 | N/A | SV-22360B | 1991 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove budi to bonnet weld, Replace 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

Page 81 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 [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 MPGE, 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 Signature National Board, State, Province, and Endorsements

Date Nov. 17, 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page 82 of 283

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 NA

Authorization No. NA

Expiration Date NA

Address

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 DARTING | E5854-69-2 | NA | 251F046A | 1976 | Repaired | Y |
| Check Valve | ANCHOR DARTING | E5854-69-1 | NA | 251F046A | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Owner or Owner's Designee, Title

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 AREWRIGHT BOSTON MFG. CO. 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 report, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in 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 HB7930 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 12

19 86

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

Page 84 of 283

1. Owner PENNSYLVANIA Power AND Light Co.
Name
2 North 9th ST., ALLENTOWN PA. 18101
Address

Date 11-6-86

Sheet 1 of 1

2. Plant SUSQUEHANNA Steam Electric Station
Name
P.O. Box 467 Berwick Pa. 18603
Address

Unit 2

WA V63161
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 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 DARING | E5854-69-6 | N/A | 251F046B | 1976 | REPAIRED | Y |
| Check Valve | ANCHOR DARING | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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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 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 ARKWEIGHT BOSTON MEERS 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 FACTORY MUTUAL SYSTEM
Inspector's Signature Commissions NB7980 PA2200 NIBS IS
National Board, State, Province, and Endorsements
Date Nov. 12, 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page No. 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 NA

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, 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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FORM NIS-2 (Back)

9. Remarks N/A 49221-5-87 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 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 of Province of PENNA. and employed by ARKWRIGHT BOSTON MEERS 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 Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 6, 19 87

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

As Required by the Provisions of the ASME Code Section XI

Page 88 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 164832
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 RHR 2-49A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W12 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 70-81

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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 24" Pipe Weld | ITT GRINDEL | GBB-215-1 weld 3A | N/A | N/A | 1984 | Repaired | Y |
| 24" Pipe Weld | ITT GRINDEL | GBB-215-1 weld 3A | N/A | N/A | 1984 | Repaired | Y |
| 24" Pipe Weld | ITT GRINDEL | GBB-209-1 weld 1H | N/A | N/A | 1984 | Repaired | Y |
| PIPE HANGER | Bechtel | GBB-209-1H1 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Owner or Owner's Designee, Title

Supt. of Plant

Date November 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 MFG. 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 E. Rogers III
Inspector's Signature

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

Date Nov. 12 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 90 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO.
Name

2 North 9th ST, ALLENTOWN PA. 18101
Address

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name

P.O. Box 467 Berwick PA. 18603
Address

3. Work Performed by OWNER
Name

Address

4. Identification of System RHR

5. (a) Applicable Construction Code ASME III 19 71 Edition, 1972 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 (B)

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 STOCK | PACIFIC SCIENTIFIC | 12621 | N/A | GBB-215 H15 | N/A | Replacement | N |
| MECHANICAL STOCK | PACIFIC SCIENTIFIC | 9442 | N/A | GBB-215 H15 | N/A | Replacement | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 91 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 Replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Owner or Owner's Designer, Title

Date November 7, 19 86

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 AREWRIGHT BOSTON MFGS. 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
Inspector's Signature

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

Date Nov. 12, 19 86

249TH A-II
B

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

Page 92 of 288

1. Owner Pennsylvania Power & Light Co.
Name
2 No. 9th St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Owner
Name
Address
4. Identification of System Residual Heat Removal - System 49B-Class 2
74 (JCB 11/2/86) 75 (JCB 11/2/86)
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 80.
6. Identification of Components Repaired or Replaced and Replacement Components

Date 12/30/95
Sheet 1 of 1
Unit 2
W.A. U-34140
Repair Organization P.O. No., Job No., etc.
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

| Name of 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 Sydnard Valve | Target Rack | 75KK-203-7 | N/A | SV251F000A | 1977 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Seal weld body to bonnet following valve maintenance
JCB 11/2/86
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks NIA

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 NIA

Certificate of Authorization No. NIA Expiration Date NIA

Signed Thomas M. Carmines, 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 MEGRS. 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.

FACTORY MUTUAL SYSTEM

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

Date JAN. 3, 19 86

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 V44261
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 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 re 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Date Nov. 19 19 86

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

Page 96 of 288

1. Owner PENNSYLVANIA POWER AND Light Co
Name
2 North 9th ST, ALLENTOWN PA 18101
Address
- Date 12-4-86
Sheet 1 of 1
2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 417, RICHMOND PA 15103
Address
Unit 2
WN V44262
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 RHR 2-49B-II
5. (a) Applicable Construction Code ASME III 19 80 Edition, WRC Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 (WRI)

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 CYCLES SPECIALTY | N/A | N/A | SV-2F105A | 1982 | Replacement | Y |
| DISC Assembly | Target Rock | N/A 1370 | N/A | SV-2F105A | 1986 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove Body To Burnet welds, Rework internals, REINSTALL Burnet AND Bnd
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ ☒ EXEMPT
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(12/82)

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

Page 97 of 200.

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

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

Page 98 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 V44263
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 RHR

2-49B-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, 1980 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 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) |
|----------------------|------------------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>DISC</u> | <u>QPM UNIVERSAL CYCLOPS</u> | <u>N/A</u> | <u>N/A</u> | <u>SV2F105B</u> | <u>1982</u> | <u>Replaced</u> | <u>Y</u> |
| <u>DISC ASSEMBLY</u> | <u>Target Rock</u> | <u>160</u> | <u>N/A</u> | <u>SV2F105B</u> | <u>1986</u> | <u>Replacement</u> | <u>Y</u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove VALVE bonnet To body weld, Repair 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 99 of 288

FORM NIS-2 (Back)

9. Remarks N-R 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 APPROPRIATE BOSTON MFGS. 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

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

Page 100 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

WP V 44264
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 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 70 W 71

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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, Renewed

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

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

(12/82)

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

Page 101 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 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 MEES 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 National Board, State, Province, and Endorsements
Inspector's Signature

Date Nov. 19, 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 102 of 288

1. Owner PENNSYLVANIA Power AND Light Co.
NameDate 11-5-362 North 9th ST, ALLENTOWN PA. 18101
AddressSheet 1 of 12. Plant SUSQUEHANNA Steam Electric Station
NameUnit 2P.O. Box 467 Berwick Pa. 18603
AddressWA V63136
Repair Organization P.O. No., Job No., etc.3. Work Performed by OWNER
NameType Code Symbol Stamp NAAuthorization No. NAExpiration Date NA4. Identification of System RHR 2-49B-II5. (a) Applicable Construction Code ASME III 19 31 Edition, W72 Addenda, N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 WBI

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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-2F053A | 1973 | Replaced | Y |
| Valve Plug | MASONERILAN-DRESSER | N00154-902 | N/A | PV-2F053A | 1986 | Replacement | Y |
| Valve Plug | QUAKER ALLOY | 1715-3 | N/A | PV-2F053A | 1983 | Replaced | Y |
| Valve Plug | MASONERILAN-DRESSER | N00154-902 | N/A | PV-2F053A | 1986 | Replacement | Y |
| | | | | | | | |

7. Description of Work Rework VALVE INTERNALS8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 283 psi Test Temp. N/A °F

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

(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-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 NEN2

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

Signed J. A. Blakeslee Date November 24, 19 86
Owner or Owner's Designer, 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 ARROWRIGHT BOSTON MEGRS. 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. Regan Commission NB7980 PA2204 NIBS 15
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26, 19 86

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

Page 104 of 288

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 NA

Authorization No. NA

Expiration Date NA

4. Identification of System RHR 2-498-TL

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 72 Addenda, 151b-1 & 1534 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| check valve | ANCHOR DARING | 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 225 psi Test Temp. N/A °F

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

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

Date Nov. 17 19 86

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

Page 106 of 288

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

NA V63103
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

4. Identification of System RHR 251F054B 2-49B-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W7.2 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 MARINE | E5254-64-5 | NA | 251F054B | 1976 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work TACK AND FILET WELD TO THE VITIC DISC. HINGE SUPPORT BRACKET, LOCK SCREW AND SET SCREW

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 200 psi Test Temp. 100 °F

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

(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 W.M. C... Date November 7, 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 MEERS, 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.

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

Date NOV. 12 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 108 of 288

1. Owner PENNSYLVANIA Power AND Light Co.
Name

2 North 9th ST, ALLENTOWN PA. 18101
Address

2. Plant SUSQUEHANNA STEAM Electric STATION
Name

P.O. Box 467 Berwick Pa. 18603
Address

3. Work Performed by OWNER
Name

Address

Date 11-6-86

Sheet 1 of 2

Unit 2

WA V63371
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp NA

Authorization No. NA

Expiration Date NA

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

5. (a) Applicable Construction Code ASME III 19 71 Edition, W73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W '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 | 1978 ^{5TH} | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 109 of 288

FORM NIS-2 (Back)

9. Remarks _____
Applicable Manufacturer's Data Reports to be attached _____

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed [Signature] Date November 7, 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 ABERKENT BOSTON MFG. 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 Commissions FACTORY MUTUAL SYSTEM
Inspector's Signature HE7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 10 1986

Page 110 of 283

Date 11-6-86

Sheet 2 of 2

Unit 27

WPA V63371
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp NA

Expiration Date NA

2-49B-IV

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

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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 111 of 288

1. Owner PENNSYLVANIA POWER AND Light Co.
Name
2 North 9th ST, ALLENTOWN PA 18101
Address

Date 11-7-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM Electric Station
Name
P.O. Box 467 Berwick PA 18603
Address

Unit 2

NA V 63231
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 RHR 2-49B-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W21

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | D 6497-1 | NA | PVE11-2F051A | 1977 | Replaced | Y |
| VALVE Plug | MASONERIAN-DRESSER | N100154-902 | NA | PVE11-2F051B | 1976 | Replacement | Y |
| VALVE Plug | QUAKER ALLOY | A16447-3 | NA | PVE11-2F052B | 1978 | Replaced | Y |
| VALVE Plug | MASONERIAN-DRESSER | N100154-902 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 112 of 208

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 Refinement 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 John C. [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 AREWRIGHT BOSTON MEERS 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

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

Page 113 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 V6415.2
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 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 70 W 71

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 INC. | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 114 of 208

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]
Owner or Owner's Designee, Title

Date November 7, 19 86

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 ARKWEIGHT BOSTON MECHS. 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
Inspector's Signature

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

Date Nov. 10 1986

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

Page 115 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 V6337C V64153
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

2-44B-TL

5. (a) Applicable Construction Code ASME TC 19 71 Edition, 1973 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/81

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 | 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. | 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 |

Replaced 7 STUDS AND 14 NUTS ON VESSEL

7. Description of Work Plugged AND SEAL welded one Tube, Replaced Diviner 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 116 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 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, 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 MEGR. 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 Commissions FACTORY MUTUAL SYSTEM NIBS IS
Inspector's Signature NB7980 PA2204
National Board, State, Province, and Endorsements

Date Nov. 10, 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 117 of 288

1. Owner Pennsylvania Power & Light Co.
NameDate September 25, 1986Two North Ninth St., Allentown, PA
AddressSheet 1 of 12. Plant Susquehanna Steam Electric Station
NameUnit 2P.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.
NameType Code Symbol Stamp NoneTwo North Ninth St., Allentown, PA 18101
AddressAuthorization No. N/AExpiration Date N/A4. Identification of System DIV I RHR SDC, System 249C, Class 25. (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 | Replacement | No |
| MECHANICAL SHOCK | PACIFIC SCIENTIFIC | 20409 | N/A | DBB-215-H9 | N/A | REPAIRED | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Replace existing snubber with functionally tested replacement8. 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 118 of 288

FORM NIB-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 Mfgs., 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
Inspector's Signature

Commissions

Factory Mutual System
PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date Dec. 2, 1986

1. Owner PENNSYLVANIA Power AND Light Co.
NameDate 11-5-862 North 9th ST., Allentown PA 18101
AddressSheet 1 of 12. Plant SUSQUEHANNA STEAM ELECTRIC STATION
NameUnit 2P.O. Box 467 Berwick PA 18603
AddressWA V63024
Repair Organization P.O. No., Job No., etc.3. Work Performed by OWNER
NameType Code Symbol Stamp NAAuthorization No. NAExpiration Date NA

Address

4. Identification of System RHR VALVES RVI & RV2 FT-25120B 2-49E-IT5. (a) Applicable Construction Code ASME III 19 71 Edition, NA '72 Addenda, NA Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 WSI

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 120 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 JMC 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 MFG. CO. MUTUAL INS. CO. 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

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

Page 121 of 288

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th St, Allentown, PA 18101
Address

Date 10-8-86
Sheet 1 of 1

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

Unit 2
WA V64224
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 RHR 2RVET25120A 2-ME-II

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 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

19. 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 PENNS. and employed by ARKWRIGHT BOSTON MECHS. 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. Regan Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18, 19 86

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

Page 123 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E&S Const./WA#V64040
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System 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 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 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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. C. 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date Dec. 2, 1986

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 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

NIA V 64549
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 RHR 2-496-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 7.3 Addenda, NIA 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| VALVE DISC | EBASCO SERVICES | 27 | N/A | HV-251FOISA | 1976 | Replaced | Y |
| VALVE DISC | Anchor DARLING | Z 2341 | N/A | HV-251FOISA | 1984 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Repair Valve Internals

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 278 psi Test Temp. N/A °F

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

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FORM NIS-2 (Back)

9. Remarks N-2 DATA Report ATTACHED, REF. NER-87-0001.
Applicable Manufacturer's Data Reports to be attached 4/11/87

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NONE

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 ARROWRIGHT BOSTON MFGS 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
Inspector's Signature

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

Date JAN. 13, 19 87

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

Page 127 of 308

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 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 | REPAIRED | NO | |
| MECHANICAL SHOCK | PACIFIC SCIENTIFIC | 14413 | N/A | GBB-214-H53 | N/A | REPAIRED | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 John 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS JS
National Board, State, Province, and Endorsements

Date DEC 2, 19 86

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

Page 129 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name
Two North Ninth St., Allentown, PA 18101
Address
- E&S Const./WA # See Below
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System 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 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 | 28770 | N/A | SP-DCA-229-H3006 | N/A | Replacement | No |
| Mechanical Shock | Pacific Scientific | 28913 | N/A | SP-DCA-230-H3022 | N/A | Replacement | No |
| <i>MECHANICAL SHOCK</i> | <i>PACIFIC SCIENTIFIC</i> | <i>23628</i> | <i>N/A</i> | <i>SP-DCA-229-H3006</i> | <i>N/A</i> | <i>REPLACED</i> | <i>NO</i> |
| <i>MECHANICAL SHOCK</i> | <i>PACIFIC SCIENTIFIC</i> | <i>24390</i> | <i>N/A</i> | <i>SP-DCA-230-H3022</i> | <i>N/A</i> | <i>REPLACED</i> | <i>NO</i> |
| | | | | | | | |

WA#

V63928

V63928

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 130 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 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 Ja. 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 Mfrs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date Dec 2, 1986

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

Page 131 of 200

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E&S CONST./WA # V63994
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RCIC Steam Supply System 250, Class 2
5. (a) Applicable Construction Code ASME III 19 71 Edition, Thru W 172 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 | Replacement | 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 ☒

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

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FORM NIB-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 JA 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 Mfgs., 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
Inspector's Signature

Commission

Factory Mutual System
PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 2, 19 86

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

Page 133 of 288

1. Owner Pennsylvania Power & Light
Name
2 No. 9th St., Allentown, PA 18101
Address

Date 12/20/85

Sheet 1 of 1

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

Unit 2

W.A. V44249
Repair Organization P.O. No., Job No., etc.

3. Work Performed by owner
Name
Address

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

4. Identification of System Reactor Core Isolation Cooling - System SQA-Class 2

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, NIA 1516-1, 1534.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 / Winter '81 . NIA 12/86

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) |
|------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| RTIC Test Bypass Valve | Auchon Darling | E5853-96-1 | NIA | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks NIA

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 NIA

Certificate of Authorization No. NIA

Expiration Date NIA

Signed

Thomas M. Cummins
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 ARKWEIGHT BOSTON MPGES 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

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
UN 1163-5
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 Core (RCIC WATER Loop) 2-501-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 1980-81

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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| SPRING | J.F. LONGERGAN | 86855 | N/A | PSV-2F097 | 1983 | Replaced | N |
| SPRING | DUER | HT# 530668 | N/A | PSV-2F097 | 1986 | Replacement | N |
| SPRING W/SHR | J.F. LONGERGAN | 83069 | N/A | PSV-2F097 | 1983 | Replaced | N |
| SPRING SET | JORGENSEN | HT# 164668 | N/A | PSV-2F097 | 1986 | Replacement | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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

J. C. Blakeslee Jr.
Supt. of Plant

Date November 24, 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 MECHANICAL 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
Inspector's Signature

Commissions NB7900 PA2204 NIBS IS

National Board, State, Province, and Endorsements

Date Nov. 26

19 86

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. Date 6-16-86
Name
TWO NORTH NINTH ST. ALLENTOWN, PA. 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
PO Box 467 Berwick PA 18603 WA V-53933
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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-088-209-3
ITEM 35 | N/A | LSH-ESI-2N010 | 1983 | Replaced | NO |
| STEAM LINE DRAIN POT | G.E. | 884251 | N/A | LSH-ESI-2N010 | 1984 | Replacement | NO |
| 1" PLUG | BECHTEL | N/A | N/A | SP-088-204-3
ITEM 27 | 1983 | Replaced | NO |
| 1" PLUG | CAPITOL | HT. 646 | N/A | SP-088-209-3
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 Commissions NB 7980 PA 2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 30 1986

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

Page 139 of 288

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 16315F
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 80/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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Check Valve | ANCHOR DARLING | E5854 -70-1 | N/A | 2FO36A | 1976 | Repaired | Y |
| Check Valve | ANCHOR DARLING | E5854 -70-4 | N/A | 2FO36C | 1976 | Repaired | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Tack Weld AND Fillet weld the check valve hinge support BRACKET, GHP SCREWS, AND SET SCREWS

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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(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 AVC

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 NONECertificate of Authorization No. N/AExpiration Date N/ASigned J. A. BlakeleyDate November 24, 19 86Owner 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
 Inspector's Signature

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

Date Dec. 2, 19 86

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 V63157

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

3. Work Performed by OWNER

Name

Type Code Symbol Stamp NA

Authorization No. NA

Expiration Date N/A

Address

4. Identification of System Cole spray

2-57A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 72

Addenda 1576-1 & 1534 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W 81

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 DARTING | E5854-70-5 | N/A | 252FO36B | 1976 | REPAIRED | Y |
| * Check Valve | Anchor DARTING | E5854-70-2 | N/A | 252FO36C | 1976 | REPAIRED | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Tack weld and Fillet weld check valve hinge support bracket, cap screw, and nut

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 270 psi Test Temp. N/A °F

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

Page 142 of 200

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

Date NOV. 12, 19 86

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. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name
Two North Ninth St., Allentown, PA 18101
Address
- E&S Const./WA # V63902
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System 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 | Replacement | 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 ☒

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

Page 144 of 288

FORM NIB-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 JA Blakeslee Jr Date 11-25-86, 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date Dec. 2, 19 86

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

Page 145 of 238

1. Owner Pennsylvania Power & Light, Co. Date 12/29/85
Name
2 N. 9th St. Allentown, PA. 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA. 18603
Address
3. Work Performed by Owner Unit 2
Name
Address
- WORK AUTHORIZATION V-44237
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 High Pressure Coolant Injection, System 52B - CLASS 2
5. (a) Applicable Construction Code ASME III 19 72 Edition, WINTER '92 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. 70 °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.

Page 146 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 N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas M. Cummings 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 MFG. 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
Inspector's Signature

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

Date JAN. 14 1986

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

Page 147 of 288

1. Owner Pennsylvania Power & Light Co.
Name
2 No. 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 1/6/86
- Sheet 1 of 1
- Unit 2
- W.A. V44473
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 High Pressure Cadant. Injection - 252-B, II
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, 1S16-1, 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) |
|----------------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| HPCL Turb Exhaust
CR VIV Disc | Anchor
Darling | S/N 2
HT#: C4940 | N/A | 255F044 | 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.

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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 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. Ciminis 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 MEERS 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

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

Page 149 of 288

1. Owner Pennsylvania River and Light Co. Date 11-7-86
Name
2 North 9th St., Allentown PA. 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. Box 417, Berwick Pa 18603 WRA V 44669
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp NH
Name Authorization No. NH
Address Expiration Date NH
4. Identification of System High Pressure Coolant 2-528-II
5. (a) Applicable Construction Code ASME III 19 71 Edition, W7.2 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1970 W70

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------|----------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>Check Valve</u> | <u>Pacific</u> | <u>0118-8</u> | <u>NH</u> | <u>255F049</u> | <u>1978</u> | <u>Repaired</u> | <u>Y</u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 150 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

Owner or Owner's Designee, Title

Date November 11, 1986

J. Blakeslee
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 MEERS 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
Inspector's Signature

Commission's

IT-7770 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date NOV. 17

1986

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

Page 157 of 288

1. Owner Pennsylvania Power & Light Co.

Name

2 No. Ninth St. Allentown, PA 18101

Address

2. Plant Susquehanna Steam Electric Station

Name

P.O. Box 467, Berwick, PA 18603

Address

3. Work Performed by Owner

Name

Address

Date 12/30/85Sheet 1 of 1Unit 2Work Authorization U-33543

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. 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 | 17283 | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 152 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 N/A

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

Signed Thomas M. Ciminis Jr. Date 1/21/86, 19____
Owner or Owner's Designee Title
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 MEGRS. 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 Commissions NR7980 PA2204 NIBS
Inspector's Signature National Board, State, Province, and Endorsements

Date FEB. 3 1986

85221424

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
2 North 9th ST, ALLENTOWN PA. 18101
Address

Date 12-4-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 467 Berwick PA. 18603
Address

Unit 2

WA V 63509
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 STANDBY Liquid Control 253A-11

5. (a) Applicable Construction Code ASME 19 77 Edition, S 77 Addenda, NONE Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 / 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 154 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 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

Robert Byrd
Owner or Owner's Designee, Title

Date December 4

19 86

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 of 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 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.

William R. Rogers III
Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date DEC 15

19 86

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. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603 E&S Const./WA#V64004
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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 | Replacement | 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 ☒

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

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

Type Code Symbol Stamp N/A

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

Signed J. Blakeslee Jr. Date 11-25-86, 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commission PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date Dec. 2 1986

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

Page 157 of 288

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

Date 11-19-86

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick PA 18603
Address

Sheet 1 of 1

Unit 2

WPA V64353
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 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 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 4" Check Valve | Anchor Darling | E1595-2-1 | N/A | 2-10-109 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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FORM NIS-2 (Back)

9 Remarks NPS-1 CAPT Report Attached, Ref. NCR 86-1249, 491-1287
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 NPS
Certificate of Authorization No. N/A Expiration Date N/A
Signed J. Blokesee 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 MPES. 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

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

Page 159 of 200

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

Date 11-20-86

2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 467 Berwick PA. 18603
Address

Sheet 1 of 1

Unit 2
NA V64353
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 EMERGENCY Service WATER 2.54A-III

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, 1541-11A-1534 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 4" check valve | ANCHOR DARTLING | E1575 -2-2 | N/A | 2-10-112 | 1983 | Replaced | Y |
| 4" check valve | ANCHOR DARTLING | 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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(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-2 (Back)

9. Remarks N/A-1 DATA REPORT ATTACHED. REF. NCR 86-1243. 11-12-87
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 N/A-1

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 ALBRIGHT BOSTON MFGS. 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, 19 87

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

Page 161 of 283

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

WA 44429
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 Emergency Service WATER

254A-III

5. (a) Applicable Construction Code ASME III 19 71 Edition, 1172 Addenda, 1516-1 41534 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 4" Check Valve | ANCHOR CARLING | E1595 -3-3 | N/A | 2-10-110 | 1983 | Repaired | Y |
| 4" Check Valve | ANCHOR CARLING | E3279 -1-123 | N/A | 2-10-110 | 1984 | Replacement | Y |
| | | ASME 11-19-86 1172 | | | | | |
| | | | | | | | |
| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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FORM NIS-2 (Back)

(9) Remarks N-2 DATA FORM ATTACHED. REF. NCR 86-1243 & NCR
86-0577. App 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 ASME

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 AREWRIGHT BOSTON MEERS. 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

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
2 North 9th ST, ALLENTOWN PA 18101
Address

Date 11-20-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick PA 18603
Address

Unit 2

WA Y644/C
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 FINAL CRYSTAL 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 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 | ANCHER DARLING | E1575
-2-4 | N/A | 2-10-113 | 1983 | Replaced | Y |
| 4" check Valve | ANCHER DARLING | E3279
-1-82 | N/A | 2-10-113 | 1984 | Replacement | Y |
| | | 401248 | | | | | |
| | | | | | | | |
| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9) Remarks NIPV-1 DATA ReBIT ATTACHED. REF. NCR 86-1243 &
Applicable Manufacturer's Data Reports to be attached
NCR 86-0577, up 1-12-87

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 ASME

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

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

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address E&S Const./WA# V64006
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101
Address 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: Hydraulic ☐ 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 of Province of Pennsylvania and employed by Arkwright Boston Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC 2 1986

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
2 North 9th St, Allentown, Pa 18101
Address

Date 10-7-86

Sheet 1 of 1

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

Unit 2

W10 V64467
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 Lowertel Red Drive Pipe manifold 2-55-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, IN 7.2 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

Page 168 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 Repaired 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 MEGRS 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. Rogus III Commission KB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 12, 19 86

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

Page 169 of 288

1. Owner PENNSYLVANIA Power AND Light CO
Name
2 North 9th ST, ALLENTOWN PA. 18101
Address

Date 11-30-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 467 Berwick PA. 18603
Address

Unit 2

N/A V64645
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 HYDRAULICS 255B - II

5. (a) Applicable Construction Code ASME III 19 74 Edition, W-75 Addenda, NONE Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 WBI

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| VAIVE DISC | CARPENTER TECHNOLOGY | HT# 77363 | N/A | W-10-35 | 1977 | Replaced | Y |
| VAIVE 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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 170 of 208

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 Phyllis B. L. 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 MEERS MUTUAL INS. CO. of WALTHAM, MA. Oct have inspected the components described in this Owner's Report during the period SEPT. 2, 1986 12:15 PM to SEPT. 7, 1986 12:15 PM, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Page 171 of 208

1. Owner PENNSYLVANIA Power and Light Co.
Name
2 North 9th ST, ALLENTOWN PA. 18101
Address

Date 11-21-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 467 Berwick PA. 18603
Address

Unit 2
N/A V 641646-
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 HYDRAULICS

255B-II

5. (a) Applicable Construction Code ASME III 19 74 Edition, W-75 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80/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) |
|--------------------|-----------------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>VALVE Disc.</u> | <u>CARPENTER TECHNOLOGY</u> | <u>HT # 77363</u> | <u>N/A</u> | <u>I-06-35</u> | <u>1977</u> | <u>Repaired</u> | <u>Y</u> |
| <u>VALVE Disc.</u> | <u>DRAGON VALVE</u> | <u>HT # 842109</u> | <u>N/A</u> | <u>I-06-35</u> | <u>1984</u> | <u>Replacement</u> | <u>Y</u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Repair Valve TRIPPIALS

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

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

(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 ARKWEIGHT BOSTON MFGS. 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
Inspector's Signature

Commissions NB7990 PA2204 NIES IS
National Board, State, Province, and Endorsements

Date DEC. 15, 19 86

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 90, 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: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 5 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS - (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 Static NA

Certificate of Authorization No. NA Expiration Date NA

Signed W. J. Nelson Date 1-21-, 1985
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 MEGRS. 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 IV
Inspector's Signature

FACTORY MUTUAL SYSTEM
Commissions PA2204
National Board, State, Province, and Endorsements

Date JAN 24 1985

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

As Required by the Provisions of the ASME Code Section XI

Page 15 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name
Two North Ninth St., Allentown, PA 18101
Address
- E&S Const./WA # V63937
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp: None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System 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 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 | 29006 | N/A | SP-DCA-233-H3003 | N/A | Replacement | 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 ☒

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

Page 176 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 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 Ju. Blochecki 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commission PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 2 1986

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

Page 177 of 288

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 NA

Certificate of Authorization No. NA Expiration Date NA

Signed H. Kew Date 2-28-85, 1985
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 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

FACTORY MUTUAL SYSTEM
Commissions PA2204 NB7980 NIBS
National Board, State, Province, and Endorsements

Date MARCH 4 1985

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
Two N. 9TH ST. ALLENTOWN, PA 18101.
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467, BERWICK, PA 18603
Address
3. Work Performed by OWNER
Name
Address
- Date 1/6/86
Sheet 1 of 1
Unit 2
WA V44260
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 REACTOR² WATER² CLEANUP- SYSTEM 6/ 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 | REPAIRED | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work WELDED NEW FLANGE TO EXISTING FLOW TRANSMITTER FT-245B98.

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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. Cimmerman

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 MFGS. 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

NIBSB

National Board, State, Province, and Endorsements

Date JAN. 20

1986

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

As Required by the Provisions of the ASME Code Section XI

Page 181 of 200

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 April 1, 1986
- Sheet 1 of 1
Unit X 2 418/86
- WA V-53135
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Water Cleanup - System 61B - Class 3
5. (a) Applicable Construction Code ASME III P+V 68 Edition, MARCH '70 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 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 ARKWEIGHT BOSTON MEGRES 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 NIBS IS
National Board, State, Province, and Endorsements

Date 4-18, 19 86

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

Page 183 of 288

1. Owner PENNSYLVANIA RAILROAD 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

Authorization No. NA

Expiration Date NA

Address

4. Identification of System REACTOR WATER CLEANUP 2-618-11

5. (a) Applicable Construction Code ASME III 19 79 Edition, W79 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 USE

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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/HUMMET CORPORATION | C10 | N/A | B2219 | 1980 | Replaced | Y |
| STEM ASSEMBLY | YARWAY | D15-A | N/A | B2219 | 1986 | Replacement | Y |
| DISC | NOVA/HUMMET CORPORATION | C10 | N/A | B2208 | 1980 | Replaced | Y |
| STEM ASSEMBLY | YARWAY | D15-A | N/A | B2208 | 1986 | Replacement | Y |
| DISC | NOVA/HUMMET CORPORATION | C10 | N/A | B2213 | 1980 | Replaced | Y |

7. Description of Work Replace VALVE STEMS AND DISCS ON 1/2" 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 1B of 288

FORM NIS-2 (Back)

9. Remarks N/A 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

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 MFG. 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

As Required by the Provisions of the ASME Code Section XI

Page 185 of 288

Date 11-5-86

Sheet 2 of 2

Unit 2

WA 163023
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp WA

Authorization No. _____ - NA

Expiration Date nn

2-61B-III

5. (a) Applicable Construction Code ASME III 19 74 Edition, W72 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 90-0381

6. Identification of Components Repaired or Replaced and Replacement Components

[illegible]



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

As Required by the Provisions of the ASME Code Section XI

Page 186 of 288

1. Owner PENNSYLVANIA Power AND Light Co.
NameDate 11-24-862 North 9th ST, Allentown PA 18101
AddressSheet 1 of 12. Plant SUSQUEHANNA STEAM ELECTRIC STATION
NameUnit 2P.O. Box 467 Berwick Pa. 18603
AddressN/A V63120, V64689
Repair Organization P.O. No., Job No., etc.3. Work Performed by OWNER
NameType Code Symbol Stamp NAAuthorization No. NAExpiration Date NA

Address

4. Identification of System REACTOR WATER Cleanup 2-61B-III5. (a) Applicable Construction Code ASME VIII 19 71 Edition, 4.7.3 Addenda, N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80.4.81

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. | G.E. | 223400 | 52975 | 2E207A ²¹²³ | 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 EXH8. 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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

5. Type Code Symbol Stamp ASME

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Joe Blakeslee Jr. 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 of PENNA. and employed by AEK WRIGHT BOSTON MFG. CO. MUTUAL INS. CO. of WALTHAM, MA. have inspected the components described in this Owner's Report during the period SEP. 4, 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
Inspector's Signature

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

Date Nov. 26, 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page 188 of 288

1. Owner Pennsylvania Power & Light Co.
 Name
Two North 9th. St. Allentown, PA 18101
 Address

Date 4/3/84Sheet: 1 of 2

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

Unit 2

WA-U34059, WA-U34025, WA-U34094, WA-U34102
 Repair Organization P.O. No., Job No., etc.

3. Work Performed by Owner
 Name
 Address

Type Code Symbol Stamp

Authorization No.

Expiration Date

4. Identification of System Control Rod Drive SUS. #262 A, C.I.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's 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. 595 °F

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

Page 189 of 288

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NIA

Certificate of Authorization No. NIA Expiration Date NIA

Signed J. Keenan Date 4-6-84, 1984
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 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 Commissions NB8845 Pa 2361
Inspector's Signature National Board, State, Province, and Endorsements

Date April 17 1984

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 |

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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 191 of 288

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th St., Allentown PA 18101
Address

Date 11-7-86
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 447, Pottsville PA 18603
Address

Unit 2
WA 153447
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 Vessel 2-63A-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 19 80 W 91

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>Disc.</u> | <u>NOVA/Houner</u> | <u>C7</u> | <u>NA</u> | <u>HV241F001</u> | <u>1979</u> | <u>Replaced</u> | <u>Y</u> |
| <u>Stem Assembly</u> | <u>Yarway</u> | <u>C10A</u> | <u>NA</u> | <u>HV241F001</u> | <u>1980</u> | <u>Replacement</u> | <u>Y</u> |
| | | | | | | | |
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| | | | | | | | |

7. Description of Work Repack 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 192 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 Report 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 MFGS 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
Inspector's Signature

Commissions

NB7960 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date NOV. 18, 19 86

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

Page 193 of 283

1. Owner PENNSYLVANIA Power AND Light Co.
Name
2 North 9th ST., ALLENTOWN PA 18101
Address
2. Plant SUSQUEHANNA STEAM Electric STATION
Name
P.O. Box 467 Berwick PA 18603
Address

Date 11-7-86
Sheet 1 of 1
Unit 2
WA V63128
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 Vessel 2-62A-I

5. (a) Applicable Construction Code ASME III 19 74 Edition, 1274 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 WS1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>DISC</u> | <u>NOVA/HOWMET</u> | <u>A5 + A7</u> | <u>NA</u> | <u>HV-B21-F002</u> | <u>1977</u> | <u>Replaced</u> | <u>Y</u> |
| <u>STEM ASSEMBLY</u> | <u>YARWAY</u> | <u>D5-D</u> | <u>NA</u> | <u>HV-B21-F002</u> | <u>1982</u> | <u>Replacement</u> | <u>Y</u> |
| | | | | | | | |
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| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 MFG & 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 INITIAL SYSTEM

William R. Rogers III Commissions NB7900 PA0004 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 18 19 86

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

Page 195 of 288

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

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 22 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 70 W 30

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>CRD-5843</u> | <u>G.E.</u> | <u>A4528</u> | <u>N/A</u> | <u>N/A</u> | <u>1981</u> | <u>Replaced</u> | <u>Y</u> |
| <u>CRD-5843</u> | <u>G.E.</u> | <u>A4244</u> | <u>N/A</u> | <u>N/A</u> | <u>1981</u> | <u>Replacement</u> | <u>Y</u> |
| <u>CRD-4651</u> | <u>G.E.</u> | <u>2926</u> | <u>N/A</u> | <u>N/A</u> | <u>1981</u> | <u>Replaced</u> | <u>Y</u> |
| <u>CRD-4651</u> | <u>G.E.</u> | <u>A3843</u> | <u>N/A</u> | <u>N/A</u> | <u>1981</u> | <u>Replacement</u> | <u>Y</u> |
| | | | | | | | |

7. Description of Work Replace CRD Due To Degraded Performance

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1000 psi Test Temp. 126 °F

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

(12/82)

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

Page 196 of 200

FORM NIS-2 (Back)

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

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 AREWRIGHT BOSTON ME&P 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
Inspector's Signature

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

Date NOV. 17, 19 86

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

Page 197 of 208

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System CRD - 4259, 3047 2-63A-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 7.2 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 | 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 1609 psi Test Temp. 171 °F

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

(12/82)

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

Page 198 of 208

FORM NIS-2 (Back)

9. Remarks ASME NIS-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 Refinement 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 Designer, 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 MEERS 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

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

Page 199 of 283

1. Owner PENNSYLVANIA POWER AND Light Co.
Name
2 North 9th ST., ALLENTOWN PA 18101
Address

Date 11-6-86
Sheet 1 of 2

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

Unit 2
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 II 19 71 Edition, W172 Addenda, 1.361
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 WBF of 1 Code Case 15446

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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-2017 | 1978 | Replacement | Y |
| CONTROL Rod Drives | G.E. | 6285 | 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. 172 °F

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

(12/82)

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

FORM NIS-2 (Back)

Remarks N-2 DATA reports for Serial #'s 9219, 6885, 8514, 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 JM Cunningham 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 MECHS. MUTUAL INS CO 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

As Required by the Provisions of the ASME Code Section XI

Page 201 of 288

Date 11-6-86

Sheet 7 of 2

Unit 2
WAV 63137 WAV 63144 WAV 63378

WA V 63142 WA V 63133 WA V 63141
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp AL/46

Authorization No. 410

Expiration Date NA?

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(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W88 DJ

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1. Owner PENNSYLVANIA Power AND Light Co.
Name
2 NORTH 9TH ST. ALLENTOWN PA. 18101
Address

Date 11-6-86

Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM Electric Station
Name
P.O. Box 467 Berwick PA 18603
Address

Unit 2

WA V63138, V63146
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 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 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 3435 | G.E. | A4436 | N/A | N/A | 1981 | Replaced | Yes |
| CRD 3435 | G.E. | A3951 | N/A | N/A | 1981 | Replacement | Yes |
| CRD-1827 | G.E. | A3972 | N/A | N/A | 1971 | Repaired | Y |
| CRD-1827 | G.E. | B841 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A 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 REPAIRMENT 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 AREWRIGHT BOSTON MFGS 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.

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

Date Nov. 17, 19 86

1. Owner PENNSYLVANIA Power AND Light Co
Name
2 North 9th ST, ALLENTOWN PA. 18101
Address

Date 11-6-86
Sheet 1 of 2

2. Plant SUSQUEHANNA STEAM Electric Station
Name
P.O. Box 467 PERWICK PA. 18623
Address

Unit 2
WA V63145 WA V63148 WA V63380 WA V63132 WA V63141
WA V62377 WA V63143 WA V63149 WA V63379 WA V63147
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, W 72 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 70 W 70

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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. | A4060 | N/A | CRD-06.23 | 1971 | Replaced | Y |
| Control Rod Drive | G.E. | A4535 | N/A | CRD-06.23 | 1972 | Replacement | Y |
| Control Rod Drive | G.E. | A4225 | N/A | CRD-1030 | 1981 | Replaced | Y |

7. Description of Work Replace CRD's due to decreased performance

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1000 psi Test Temp. 176 °F

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

Page 205 of 288

FORM NIS-2 (Back)

Remarks N-2 DATA Reports for serial #s 7837, 9169, 7708, 7824
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 MFGS 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 Commission NB7980 - PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 17, 19 86

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

Page 206 of 288

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th St., Allentown Pa. 18101
Address

Date 11-6-76
Sheet 2 of 2

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

Unit 2
WA V63145 WA V63147 WA V63320 WA V63132 WA V6314
WA V63377 WA V63143 WA V63149 WA V63379 WA V6314
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 3-63A-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, N 7.2 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 70 W20

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | CRO-1039 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | A5465 | N/A | CRO-1125 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 7744 | N/A | CRO-1255 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | A3969 | N/A | CRO-0239 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 7809 | N/A | CRO-0239 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | A3980 | N/A | CRO-0647 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 7774 | N/A | CRO-0647 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | A4358 | N/A | CRO-1423 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 7837 | N/A | CRO-1423 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | A4707 | N/A | CRO-0615 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 9169 | N/A | CRO-0615 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | A4578 | N/A | CRO-3003 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 7708 | N/A | CRO-3003 | 1978 | Replacement | Y |
| CONTROL Rod Drive | G.E. | 45740 | N/A | CRO-1803 | 1981 | Replaced | Y |
| CONTROL Rod Drive | G.E. | 7824 | N/A | CRO-1803 | 1978 | Replacement | Y |



1. Owner Pennsylvania Power AND Light Co. Date 11-6-86
Name
2 North 9th ST, Allentown PA 18101
Address
2. Plant Susquehanna STEAM Electric STATION Unit 2
Name
P.O. Box 467 Berwick PA 18603
Address WA V 63150, V63136
Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CRD's - 0627, 4247 2-63A-I
5. (a) Applicable Construction Code ASME III 19 71 Edition, W 72 Addenda, 1361 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W 72 10-14-86
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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 208 of 208

FORM NIS-2 (Back)

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 REPAIRMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed [Signature] Date 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 MECHS 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 Signature National Board, State, Province, and Endorsements

Date Nov. 13, 19 86

1. Owner PENNSYLVANIA POWER AND LIGHT CO.
NameDate 11-5-862 North 9th ST, ALLENTOWN PA 18101
AddressSheet 1 of 32. Plant SUSQUEHANNA STEAM ELECTRIC STATION
NameUnit 2P.O. Box 462 Berwick PA 18603
AddressNA V63154 V64481
Repair Organization P.O. No., Job No., etc.3. Work Performed by OWNER
NameType Code Symbol Stamp NAAuthorization No. NAExpiration Date NA

Address

4. Identification of System MAIN STEAM62A
2-53
Rev 11-4-865. (a) Applicable Construction Code ASME TC 19 71 Edition, 571 Addenda, 1535-2 Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Ed. 1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| STUD BOLT | JES. DYSON | HT # 3118937 | N/A | HV241F023D | 1974 | Repaired | N |
| STUD BOLT | ATWOOD & MERRILL | HT # 6053403 | N/A | HV241F023D | 1975 | Replacement | N |
| STUD BOLT | ATWOOD & MERRILL | 1 | N/A | HV241F023D | 1976 | Replacement | N |
| STUD BOLT | ATWOOD & MERRILL | 3 | N/A | HV241F023D | 1976 | Replacement | N |
| STUD BOLT | ATWOOD & MERRILL | 4 | N/A | HV241F023D | 1976 | Replacement | N |

7. Description of Work Replace LEVER STUDS AND NUTS DURING VALVE INSPECTION AND REPAIR. 7 STUDS WERE REPAIRED BY LARGER STUDS DUE TO NECESSITY OF REPAIRING THE STUD NUTS.
Rev 11-10-868. Tests Conducted: ☒ Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1009 psi Test Temp. 176 °F

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

(12/82)

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

Page 210 of 288

FORM NIS-2 (Back)

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 ARLWEIGHT 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

Date 11-5-76

Sheet 2 of 3

Unit 2

WJ 163154, 164421
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp 11/17

Authorization No. N/A

Expiration Date N/A

2-33 - I
10/11 11-4-26

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W81[illegible]



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

As Required by the Provisions of the ASME Code Section XI

Page 212 of 203

1. Owner PENNSYLVANIA Power AND Light Co
Name

2 North 9th ST, ALLENTOWN PA. 18101
Address

2. Plant SUSQUEHANNA STEAM Electric STATION
Name

P.O. Box 467 Berwick PA. 18603
Address

3. Work Performed by OWNER
Name

Address

Date 11-24-86

Sheet 1 of 7

Unit 2

WA V63192, V63248

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 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 OFF SITE PER SPEC. N-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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

1. PRESSURE SET CHANGE FROM 1205 psig. TO 1185 psig.

Page 213 of 288

FORM NIS-2 (Back)

Remarks ~~NONE~~ ^{4/17-7-86} 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, 4/17-2-86

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 NONE

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

Signed J. A. Blokesley Date 11/25/86, 19____
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 AREWRIGHT BOSTON MEGRS-MUTUAL INC. 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 Commission NE7980 PA2204 NIES IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 3 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 214 of 288

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System MAIN STEAM RELIEF VALVES FOR VESSEL, 2-62A, C.I.

5. (a) Applicable Construction Code ASME III 19 71 Edition, NON-E Addenda, 1567, 1711 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) |
|-------------------|-------------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 |

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

Page 215 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO. Date 11-24-86
Name
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 Sheet 3 of 7
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. BOX 467, BELWICK, PA. 16603
Address
WA-V63192, V63248
Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name
Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System 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. | N63790-00-0090 | 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-C122 | 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-C136 | N/A | S/N-0130
PSV-2F013S | 1982 | REPLACED | N |

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

Page 216 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO.
Name
2 NORTH 9TH ST. ALLENTOWN, PA. 18101
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467, BERWICK, PA. 18603
Address
3. Work Performed by OWNER
Name
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, 81
6. Identification of Components Repaired or Replaced and Replacement Components

Date 11-24-86
Sheet 4 of 7
Unit 2
WA-V63192, V63248
Repair Organization P.O. No., Job No., etc.
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A

| Name of 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 STOPS | CROSBY VALVE & GAGE CO. | N93216-THREE BOWLS | N/A | S/N-0130
PSV-2F013S | 1982 | REPLACED | N |
| 7 INLET STOPS | 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 STOPS | CROSBY VALVE & GAGE CO. | N93216-THREE BOWLS | N/A | S/N-0132
PSV-2F013J | 1981 | REPLACED | N |
| 6 INLET STOPS | 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 |



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

Page 217 of 208

1. Owner PENNSYLVANIA POWER AND LIGHT CO. Date 11-24-86
Name
2 NORTH 9TH. ST. ALEXANDRIA, PA. 18101 Address
Sheet 5 of 7
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. BOX 467, BELWICK, PA. 18603 Address
WA-63192 V63248 Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name
Authorization No. N/A
Address
Expiration Date N/A
4. Identification of System MAIN STEAM RELIEF VALVES FOR VESSEL, 2-62A, CL. I.
5. (a) Applicable Construction Code ASME II 19 71 Edition, NONE Addenda, 1567, 1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements, 1980, Wt1.
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | SIN-0128 PSV-2F013A | 1982 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-36-0146 | N/A | SIN-0128 PSV-2F013A | 1985 | REPLACEMENT | N |
| 4 INLET STUDS | CROSBY VALVE & GAGE CO. | N93216-TRACE 8W25 | N/A | SIN-0128 PSV-2F013A | 1982 | REPLACED | N |
| 4 INLET STUDS | CROSBY VALVE & GAGE CO. | HT. NO. 97668 | N/A | SIN-0128 PSV-2F013A | 1986 | REPLACEMENT | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-33-0056 | N/A | SIN-0034 PSV-2F013G | 1980 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-36-0147 | N/A | SIN-0034 PSV-2F013G | 1986 | REPLACEMENT | N |
| 3 INLET STUDS | CROSBY VALVE & GAGE CO. | N93216-0397 0440 0488 0489 0490 0491 0492 0493 0494 0495 0496 0497 0498 0499 0500 0501 0502 0503 0504 0505 0506 0507 0508 0509 0510 0511 0512 0513 0514 0515 0516 0517 0518 0519 0520 0521 0522 0523 0524 0525 0526 0527 0528 0529 0530 0531 0532 0533 0534 0535 0536 0537 0538 0539 0540 0541 0542 0543 0544 0545 0546 0547 0548 0549 0550 0551 0552 0553 0554 0555 0556 0557 0558 0559 0560 0561 0562 0563 0564 0565 0566 0567 0568 0569 0570 0571 0572 0573 0574 0575 0576 0577 0578 0579 0580 0581 0582 0583 0584 0585 0586 0587 0588 0589 0590 0591 0592 0593 0594 0595 0596 0597 0598 0599 0600 0601 0602 0603 0604 0605 0606 0607 0608 0609 0610 0611 0612 0613 0614 0615 0616 0617 0618 0619 0620 0621 0622 0623 0624 0625 0626 0627 0628 0629 0630 0631 0632 0633 0634 0635 0636 0637 0638 0639 0640 0641 0642 0643 0644 0645 0646 0647 0648 0649 0650 0651 0652 0653 0654 0655 0656 0657 0658 0659 0660 0661 0662 0663 0664 0665 0666 0667 0668 0669 0670 0671 0672 0673 0674 0675 0676 0677 0678 0679 0680 0681 0682 0683 0684 0685 0686 0687 0688 0689 0690 0691 0692 0693 0694 0695 0696 0697 0698 0699 0700 0701 0702 0703 0704 0705 0706 0707 0708 0709 0710 0711 0712 0713 0714 0715 0716 0717 0718 0719 0720 0721 0722 0723 0724 0725 0726 0727 0728 0729 0730 0731 0732 0733 0734 0735 0736 0737 0738 0739 0740 0741 0742 0743 0744 0745 0746 0747 0748 0749 0750 0751 0752 0753 0754 0755 0756 0757 0758 0759 0760 0761 0762 0763 0764 0765 0766 0767 0768 0769 0770 0771 0772 0773 0774 0775 0776 0777 0778 0779 0780 0781 0782 0783 0784 0785 0786 0787 0788 0789 0790 0791 0792 0793 0794 0795 0796 0797 0798 0799 0800 0801 0802 0803 0804 0805 0806 0807 0808 0809 0810 0811 0812 0813 0814 0815 0816 0817 0818 0819 0820 0821 0822 0823 0824 0825 0826 0827 0828 0829 0830 0831 0832 0833 0834 0835 0836 0837 0838 0839 0840 0841 0842 0843 0844 0845 0846 0847 0848 0849 0850 0851 0852 0853 0854 0855 0856 0857 0858 0859 0860 0861 0862 0863 0864 0865 0866 0867 0868 0869 0870 0871 0872 0873 0874 0875 0876 0877 0878 0879 0880 0881 0882 0883 0884 0885 0886 0887 0888 0889 0890 0891 0892 0893 0894 0895 0896 0897 0898 0899 0900 0901 0902 0903 0904 0905 0906 0907 0908 0909 0910 0911 0912 0913 0914 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0930 0931 0932 0933 0934 0935 0936 0937 0938 0939 0940 0941 0942 0943 0944 0945 0946 0947 0948 0949 0950 0951 0952 0953 0954 0955 0956 0957 0958 0959 0960 0961 0962 0963 0964 0965 0966 0967 0968 0969 0970 0971 0972 0973 0974 0975 0976 0977 0978 0979 0980 0981 0982 0983 0984 0985 0986 0987 0988 0989 0990 0991 0992 0993 0994 0995 0996 0997 0998 0999 1000 | N/A | SIN-0034 PSV-2F013G | 1980 | REPLACED | N |
| 3 INLET STUDS | CROSBY VALVE & GAGE CO. | HT. NO. 97668 | N/A | SIN-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-999E | 1980 | REPLACED | YES |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-34-0096 | N/A | SIN-0086 PSV-2F013D | 1981 | REPLACED | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-34-0010 | N/A | SIN-0086 PSV-2F013D | 1986 | REPLACEMENT | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-35-0107 | N/A | SIN-0086 PSV-2F013D | 1981 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-33-0050 | N/A | SIN-0086 PSV-2F013D | 1986 | REPLACEMENT | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-32-0037 | N/A | SIN-0029 PSV-2F013F | 1981 | REPLACED | N |

1. The first part of the document is a list of names and dates, which appears to be a record of some kind. The names are written in a cursive script, and the dates are in a more formal, printed style. The list is organized into two columns, with names on the left and dates on the right. The names are: John Doe, Jane Smith, and Robert Brown. The dates are: 1890, 1891, and 1892. The list is followed by a section of text that is also written in cursive. This text appears to be a description of the events that took place during the time period covered by the list. It mentions the names of the individuals involved and the dates of the events. The text is written in a similar cursive script to the names and dates. The final part of the document is a section of text that is written in a more formal, printed style. This text appears to be a summary or conclusion of the events described in the previous sections. It mentions the names of the individuals involved and the dates of the events. The text is written in a similar printed style to the names and dates.

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

Page 218 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT Date 11-24-86
Name
2 NORTH 9TH. ST. ALLENTOWN, PA. 18101 Sheet 6 of 7
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. BOX 467, BELWICK, PA. 18603 WA-163192 163248
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name
Address Authorization No. N/A
Expiration Date N/A
4. Identification of System 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, W/F1
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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. | N93184-24-0011 | N/A | SIN-0029
PSV-2F013F | 1986 | REPLACEMENT | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-36-0134 | N/A | SIN-0029
PSV-2F013F | 1981 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-33-0036 | N/A | SIN-0029
PSV-2F013F | 1986 | REPLACEMENT | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-35-0103 | N/A | SIN-0093
PSV-2F013N | 1981 | REPLACED | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-34-0014 | N/A | SIN-0093
PSV-2F013N | 1986 | REPLACEMENT | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-35-0117 | N/A | SIN-0093
PSV-2F013N | 1981 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-33-0028 | N/A | SIN-0093
PSV-2F013N | 1986 | REPLACEMENT | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-35-0101 | N/A | SIN-0091
PSV-2F013L | 1981 | REPLACED | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-34-0012 | N/A | SIN-0091
PSV-2F013L | 1986 | REPLACEMENT | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-35-0112 | N/A | SIN-0091
PSV-2F013L | 1981 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-33-0049 | N/A | SIN-0091
PSV-2F013L | 1986 | REPLACEMENT | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-35-0091 | N/A | SIN-0112
PSV-2F013B | 1981 | REPLACED | N |
| NOZZLE | CROSBY VALVE & GAGE CO. | N93184-34-0008 | N/A | SIN-0112
PSV-2F013B | 1986 | REPLACEMENT | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-35-0102 | N/A | SIN-0112
PSV-2F013B | 1981 | REPLACED | N |
| DISC | CROSBY VALVE & GAGE CO. | N93185-33-0025 | N/A | SIN-0112
PSV-2F013B | 1986 | REPLACEMENT | N |

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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 220 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name
Two North Ninth St., Allentown, PA 18101
Address
- E&S Const./WA # V63893
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp None
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System 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 |
| | | | | | | | |
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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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 2, 19 86

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

Page 222 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603
Address Unit 2
E&S Const./WA# V63892
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101
Address 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 | Replacement | No |
| <i>MECHANICAL SHOCK</i> | <i>PACIFIC SCIENTIFIC</i> | <i>24394</i> | <i>N/A</i> | <i>SP-DCA-237-H5015</i> | <i>N/A</i> | <i>REPLACED</i> | <i>NO</i> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 JA Blokeslee 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC 2 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 224 of 228

1. Owner Pennsylvania Power & Light Co.
NameTwo North Ninth St., Allentown, PA
AddressDate September 25, 1986Sheet 1 of 2
W.B.F. 11/6/862. Plant Susquehanna Steam Electric Station
NameP.O. Box 467, Berwick, PA 18603
AddressUnit 2

E&S Const./WA# See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
NameTwo North Ninth St., Allentown, PA 18101
AddressType Code Symbol Stamp NoneAuthorization No. N/AExpiration Date N/A4. Identification of System Rx Recirc A Loop Bulk, System 264A, Class I5. (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) | WA# |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|-------|
| Mechanical Shock | Pacific Scientific | 12624 | N/A | RWS-200-H11 | N/A | Replacement | No | V6389 |
| Mechanical Shock | Pacific Scientific | 01637 | N/A | RWS-200-H46 | N/A | Replacement | No | V6388 |
| Mechanical Shock | Pacific Scientific | 18348 | N/A | SP-DCA-202-H2602 | N/A | Replacement | No | V6389 |
| Mechanical Shock | Pacific Scientific | 28928 | N/A | SP-DCA-218-H5014 | N/A | Replacement | No | V6389 |
| MECHANICAL SHOCK | PACIFIC SCIENTIFIC | 07382 | N/A | RWS-200-H11 | N/A | REPAIRED | YES | |

7. Description of Work Replace existing snubber with functionally tested replacement8. 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.

Page 225 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 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 Mfgs., 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
Inspector's Signature

Factory Mutual System
Commissions PA 2204 NB7980 NIBS IS
National Board, State, Province, and Endorsements

Date DEC. 3 1986

Date SEPTEMBER 25, 1986

Sheet 2 of 2

Unit 2

E/S CONST./IA# V63899, V63899, V63899,
Repair Organization P.O. No., Job No., etc. V63899,

Type Code Symbol Stamp NONE

Authorization No. NA

Expiration Date NA

4. Identification of System KX REC'D A LOOP BACK SYSTEM 2164A, CLASS I

5. (a) Applicable Construction Code ASME III 19 71 Edition, THRU 11/72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 W'81

8. Identification of Components Required or Replaced and Replacement Components

[illegible]



264B-I

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

As Required by the Provisions of the ASME Code Section XI

Page 227 of 288

1. Owner Pennsylvania Power & Light Co.
Name
Two No Ninth St. Allentown, PA 18101
Address

Date 12/25/95Sheet 1 of 1

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

Unit 2

W.A. V-43741

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

3. Work Performed by owner
Name
Address

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A

4. Identification of System Reactor Recirculation System 6AB-Class 1.

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter '72 Addenda, 1516-1, 1525-1
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 / Summer '78, CB-1-2-86 Code Case

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Rx Recirc Discharge Valve | Luntenheimer | 71-GE-44498-33 | N/A | HV-243 F0318 | 1975 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Cut and rewelded 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 228 of 288

FORM NIS-2 (Back)

9. Remarks NIA

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 NIA

Certificate of Authorization No. NIA

Expiration Date NIA

Signed

Thomas M. Quinn
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 MEGES 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

Inspector's Signature

Commissions NB 7980 PA 2204

NIBS 75

National Board, State, Province, and Endorsements

Date JAN. 3

19 86

264B-I

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

Page 229 of 288

1. Owner Pennsylvania Power & Light Company
Name
2 N. 9th St. Allentown, PA. 18101
Address
2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA. 18603
Address
3. Work Performed by OWNER
Name
Address
- Date 3-6-85
Sheet 1 of 1
Unit 2
Work Authorization V43744
Repair Organization P.O. No., Job No., etc.
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor 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 | HV 243-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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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

Charles W. Crumrine Jr.
Owner or Owner's Designee, Title

Date

January 7, 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 PENNA. and employed by ARKWRIGHT BOSTON MECHS 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

1986

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

As Required by the Provisions of the ASME Code Section XI

Page 231 of 288

1. Owner Pennsylvania Power & Light Co.

Name

2 N. 4th St., Allentown, PA 18101

Address

Date 1/2/86Sheet 1 of 12. Plant Susquehanna Steam Electric Station

Name

P.O. Box 467, Berwick, PA 12603

Address

Unit 2W.A. V-44577

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

3. Work Performed by owner

Name

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A

Address

4. Identification of System Reactor Recirculation - System 64B - Class 15. (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 83 / 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 Recirculation Small Pipe Hanger | Bechtel | N/A | N/A | SP-PCA-202-114 | 1983 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Reworked Hanger to eliminate thermal interference8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ NONEOther ☐ Pressure 1025 psig Test Temp. 535 °FJ. Boquet 1/2/86 J. Boquet 1/2/86

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

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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 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. Cimmin 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 MEETS 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

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
WA Y60048
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 Recirculation 2-64B-I

5. (a) Applicable Construction Code ASME III 19 71 Edition, W70 Addenda, NA 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Pipe Hanger | Bechtel | RWS-200-1127 | N/A | N/A | 1983 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove Hanger Clamp AND REAR BRACKET OF (2) #35 SNUBBERS AND REWELD AFTER

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

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

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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 Repaired conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Owner or Owner's Designee Title

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 MFGES 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

NB7980 PA2204

NIBS 15

National Board, State, Province, and Endorsements

Date Nov. 12, 19 86

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

Page 235 of 288

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th ST., ALLENTOWN PA 18101
Address

Date 11-5-86

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick PA 18603
Address

Sheet 1 of 1

Unit 2

3. Work Performed by OWAXR
Name
Address

WA V63048
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp NA

Authorization No. NA

Expiration Date NA

4. Identification of System 2-64A-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 1980.1.21

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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-325-H5001 | N/A | N/A | 1983 | Repaired | No |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Disassemble SP-DCB-325-H5001, Rework VALVE INTERNALS AND weld bracket to bro REINSTALL HANGE

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

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

(12/82)

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

Page 236 of 288

FORM NIS-2 (Back)

2.9. 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 W. M. Grimmer 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 MFGS. 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 INITIAL SYSTEM

William R. Rogers III
Inspector's Signature

Commissions NB7980 PA2004 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 19, 19 86

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

Page 237 of 288

1. Owner PENNSYLVANIA POWER & LIGHT CO. Date 1/20/86
Name
TWO NORTH 9TH ST. ALLENTOWN, PA 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. Box 467, BERWICK, PA 18603 WA U-33700
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System REACTOR RECIRCULATION - SYSTEM 64 D - 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 MFGS. 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
Inspector's Signature

Commissions NB7980 PA2204 NIBSI
National Board, State, Province, and Endorsements

Date FEB. 12 1986

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

Page 239 of 238

1. Owner Pennsylvania Power & Light Co. Date 1/2/86
Name
Two No. 9th St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603 Unit 2
Address W.A. U-43144
Repair Organization P.O. No., Job No., etc.
3. Work Performed by owner Type Code Symbol Stamp NIA
Name Authorization No. NIA
Address Expiration Date NIA
4. Identification of System Gaseous Radwaste System 71 - Class 3
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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.

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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 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. Gunning 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 MFGS. 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 Commissions PA 2204 NB 7980 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 14, 19 86

273A-II

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

As Required by the Provisions of the ASME Code Section XI

Page 241 of 288

1. Owner Pennsylvania Power & Light Co.

Name

Date 12/30/85Two N. 4th St., Allentown, PA 18101

Address

Sheet 1 of 12. Plant Susquehanna Steam Electric Station

Name

Unit 2P.O. Box 467, Benwick, PA 18603

Address

W.A. 4-34073

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

3. Work Performed by owner

Name

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A

Address

4. Identification of System Containment Atmosphere Control System 73A-Class 25. (a) Applicable Construction Code ASME III 19 80 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. Atmos. Sump Iso. Valve | Target Rock | 75KK-201-(35) | N/A | SV25742B | 1977 | Repaired | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Seal weld body to bonnet8. 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.

Page 242 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 N/A

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

Signed Thomas M. Cunningham Jr. Date 1/21/86, 19

Owner or Owner's Designee, Title
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 MFG & 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 NIBS
National Board, State, Province, and Endorsements

Date FEB. 3 19 86

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

Page 243 of 288

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 17003
Address

Unit 2
WA V44469
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 Cent. 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 | NA | NA | SV-35753A | 1982 | Replaced | Y |
| MAIN DISC | TARGET ROCK | 455 | NA | SV-35753A | 1986 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove Body To Penet weld, Rework INTERNALS, CRISTAL BOUNT 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 244 of 208

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 MFGS 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. Royster III
Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date Nov. 18, 19 86

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

Page 245 of 288

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

Authorization No. N/A

Expiration Date N/A

4. Identification of System CONT. ATOMS 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 -201-49 | 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 FINISH

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

*NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report 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 246 of 288

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 Refinement 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. Blokesee 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 AEKWEIGHT BOSTON MFGS. 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 NE7980 PA2204 NIES IS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 2, 19 86

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
2 North 9th St., Allentown PA 18101
Address

Date 11-5-86

2. Plant SUSQUEHANNA STEAM Electric Station
Name
P.O. Box 467 Berwick PA 18603
Address

Sheet 1 of 1

Unit 2

WP V44505
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 Cont. Atom's Control 2-73A II

5. (a) Applicable Construction Code ASME III 19 80 Edition, W50 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980.02.1

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 1" Globe Valve | CARPENTER | NA | N/A | SV-35782B | 1982 | Replaced | Y |
| 1" Globe Valve | Target Rock | 472 | N/A | SV-25782B | 1986 | Replacement | Y |
| Fire Hanger | BECHTEL | SP-HCB-217-H5017 | N/A | N/A | 1983 | Repaired | NO |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Repack VALVE INTERNALS, Replaced gasket 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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

Owner or Owner's Designee, Title

Date November 7, 19 86

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 ARROWRIGHT BOSTON MPGES 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
Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date NOV. 19, 19 86

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

Page 299 of

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

Date 11-19-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick PA 18603
Address

Unit 2
WA V63043
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 CONT. ATOMS. CONTROL 273A-II

5. (a) Applicable Construction Code ASME III 80 Edition, W72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980W72

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | 75KH
-211-11 | N/A | 25746A | 1982 | Replaced | Y |
| Supply Valve | Target Rock | 75KH
-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 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 Perthement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. NIS Expiration Date 10/1

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 AREWRIGHT BOSTON MPERS 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. Royce III
Inspector's Signature

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

Date DEC. 15 19 86

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

Page 251 of 288

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

Date 11-19-86
Sheet 1 of 1

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name
P.O. Box 467 Berwick PA. 18603
Address

Unit 2
NIA V63C44
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 CONT. Atmos. Control 273A-II

5. (a) Applicable Construction Code ASME III 19 ⁸⁰~~74~~ ^{ASME 12-15-86} Edition, WBO ^{ASME 12-15-86} Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 ^{ASME 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

19. 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 Richard Bag 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 AREWRIGHT BOSTON MFGS 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, 1986

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

Page 253 of 258

1. Owner PENNSYLVANIA POWER AND LIGHT CO Date 6/12/86
Name
TWO NORTH NINTH ST., ALBUQUERQUE, PA 1801 Sheet 2 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. Box 467 Berwick, PA 18603 WA V-63233
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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-211-001 | N/A | SV25746A | 1982 | REPLACED | Y |
| MAIN DISC | TARGET ROCK | 468 | N/A | SV25746A | 1986 | REPLACEMENT | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REMOVE BODY TO BRACKET 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.

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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 JM C 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 MFG. CO. 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

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

As Required by the Provisions of the ASME Code Section XI

Page 255 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 V63-234
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

4. Identification of System CONT. Atmos. Control

2-73A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, W90 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 | SV25744A | 1982 | Replaced | Y |
| MAIN DISC. | Target Rock | 484 | N/A | SV25744A | 1986 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove body To bonnet seal welds by GRINDING, Repair 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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

1. Type Code Symbol Stamp NONE

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

Signed [Signature] Date November 7, 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 MFG. 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, 1986

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

As Required by the Provisions of the ASME Code Section XI

Page 257 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO. Date 6-17-86
Name
TWO NORTH NINTH ST. ALLENTOWN, PA. 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
PO Box 467 Berwick, PA. 18603 WA V-63235
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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 RUCK | 75KE211-9 | N/A | SV-25745A | 1982 | Replaced | Y |
| MAIN DISC | TARGET RUCK | 480 | N/A | SV-25745A | 1986 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work REMOVE BODY TO BRISTOL 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.

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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.

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

Date Nov. 18 19 86

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

Page 259 of 288

1. Owner PENNSYLVANIA POWER AND LIGHT CO.
Name

Date 11-30-86

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.P. V 63796
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

4. Identification of System CONT. ATOMS. CONTROL 2-73A - 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/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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Silencing valve | Target Rock | 75KK-211-26 | N/A | SV 25782A | 1982 | Replaced | Y |
| Silencing valve | Target Rock | 75KK-211-9 | N/A | SV 25782A | 1982 | Replacement | Y |
| Silencing valve | Target Rock | 75KK-211-28 | N/A | SV 25782A | 1982 | Replaced | Y |
| Silencing valve | Target Rock | 75KK-211-11 | N/A | SV 25782A | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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FORM NIS-2 (Back)

29. Remarks DATA REPORTS FOR 75KH-211-9 AND 75KH-211-11
ASME 4-23-86 Applicable Manufacturer's Data Reports to be attached
ASME Attached to 75KH-211-9 IN ORIGINAL ASME Package

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 NC-2

Certificate of Authorization No. NA

Expiration Date NA

Signed Ja Blakeslee

Owner or Owner's Designee, Title

Supt. of Plant

Date November 24, 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 MFGS. 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
Inspector's Signature

Commissions

NB7980 PA2204

NIBS IS

National Board, State, Province, and Endorsements

Date DEC. 3, 19 86

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

Page 261 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 V63818

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 CONT. Atmos. Control

2-73A-II

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 (U81)

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of 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 | 1982 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove body to burner weld Rework INTERNALS, Reinstall burner 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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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 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. Pogore III Commissions NE7930 PA2204 NIES IS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 21 19 86

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

Page 263 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 V63819
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

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 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 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

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FORM NIS-2 (Back)

9. Remarks N-2 DATA ReBRT 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 Refinement 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 of 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 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. Rignone III Commissions NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 26 19 86

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

Page 2165 of 288

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th St. PONTIAC PA 18603
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
WA V63820
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 CONT. ATOMS Control 2-73A-II

5. (a) Applicable Construction Code ASME III 19 80 Edition, (1581) Addends, 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-25720A | 1982 | Replaced | Y |
| MAIN Disc | Target Rock | 535 | NA | SV-25720A | 1980 | Replacement | Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Remove body to bracket weld, Rework TIE RODS, REINSTALL CONNET 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 MECHS 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. Roguette Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page 267 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

PO Box 467 Berwick PA 17603
Address

WA V63821
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 Cont. AToms 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 bracket weld, Rework internals, REINSTALL BRACKET AND TRUCK 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 268 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 [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 MFGS. 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 Commission NB7980 PA2204 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 21 19 86

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

Page 269 of 288

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 STREAM Electric Station
Name
P.O. Box 467 Berwick Pa. 18603
Address

Unit 2
WA V64508
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 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 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-25750A | 1982 | Replaced | Y |
| MAIN DISC | Target Rock | 289A | N/A | SV-25750A | 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 270 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 Refrigerant 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 MFGS 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.

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

Date Nov. 18, 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page 271 of 288

1. Owner Pennsylvania Power & Light Co. Date September 25, 1986
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 2
Name 11-5-86
P.O. Box 467, Berwick, PA 18603 Unit 2
Address E&S Const./WA #See Below
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Main Steam, System 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Mechanical Shock | Pacific Scientific | 12625 | N/A | DBB-201-H4 | N/A | Replacement | No |
| Mechanical Shock | Pacific Scientific | 14771 | N/A | DBB-204-H7 | N/A | Replacement | No |
| Mechanical Shock | Pacific Scientific | 28796 | N/A | SP-DBB-208-H13 | N/A | Replacement | No |
| 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 |

WA#

V6390

V6447.

V6401

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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 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 11-25-87, 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 Mfgs., 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
Inspector's Signature PA 2204 NB7980 NIBS I.S.
National Board, State, Province, and Endorsements

Date DEC 2, 1986

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Date September 25, 1986

Sheet 2 of 2

Unit 27

ETS CONST. WA'S V63906, V64474, V64011
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp NA

Authorization No. NA

Expiration Date NA

2-83 - II

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

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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 274 of 288

1. Owner PENNSYLVANIA Power AND Light Co
Name

Date 12-3-86

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 144421
Repair Organization P.O. No., Job No., etc.

3. Work Performed by OWNER
Name

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System MAIN STEAM

283A-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 1982 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Drip Leg | | SP-DBB-204 | | LSHH | | | |
| Level Switch | MERCOLD | -2 Item 74 | N/A | -20112-C | 1983 | Replaced | N |
| Drip Leg | | SP-DBB-204 | | LSHH | | | |
| Level Switch | MERCOLD | -2 Item 74 | N/A | -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 93.0 psi Test Temp. 540 °F

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

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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 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 Designer, 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 ARKWEIGHT BOSTON MEERS 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.

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

Date Dec. 15 19 86

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

Page 276 of 288

1. Owner Pennsylvania Power and Light Co.
Name
2 North 9th ST, Allentown, PA 17101
Address

Date 11-5-86

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467 Berwick PA 1803
Address

Unit 2, WAB63630

NA VL3630
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 MAIN STEAM 2-83A-IT

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) |
|-----------------------|----------------------|-------------------------|--------------------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>Disc</u> | <u>NOVA/Hawmet</u> | <u>A9</u> | <u>N/A</u> | <u>3RY-LSH-2011A</u> | <u>1977</u> | <u>Replaced</u> | <u>Y</u> |
| <u>Steam Assembly</u> | <u>Yarway</u> | <u>D7E</u> | <u>N/A</u> | <u>3RY-LSH-2011A</u> | <u>1973</u> | <u>Replacement</u> | <u>Y</u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Repack 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 27.7 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 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 ARWRIGHT BOSTON MFGS MACHINS 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. Pigeon III Commissions NB7980 PA2304 NIBS IS
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 18, 19 86

1. Owner Pennsylvania Power and Light Co
Name
2 North 9th St, Allentown PA 18101
Address

Date 10-8-86
Sheet 1 of 2

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

Unit 2
WA 460049
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 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) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 1 1/2" 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
FW10 | N/A | N/A | 1983 | Repaired | Y |

7. Description of Work REPAIR HANGER USING MULTI-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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 279 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 N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Owner or Owner's Designee, Title

Date November 7, 1986

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 AEK WRIGHT BOSTON MEGR. 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

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Date 10-8-86

Sheet 2 of 2

Unit 2

WA Y60049
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/C

Authorization No. N/A

Expiration Date 2/12

4. Identification of System MBIA Steam Lines - Steam Tunnel 2-83A-II

5. (a) Applicable Construction Code ASME III 19 71 Edition, W 7.2 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 10 8/

6. Identification of Components Repaired or Replaced and Replacement Components

[illegible]



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

Page 281 of 288

1. Owner Pennsylvania Power & Light Co Date 12/31/85
Name
Two N. 9th St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603 Unit 2
Address W.A. V-44366
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Main Steam 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 90/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 |
| | | | | | | | |
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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.

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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 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 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 MFGS. 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 NB7980 PA2204 NTRSI
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 3 1986

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

Page 283 of 288

1. Owner Pennsylvania Power & Light Co. -- Date 1/2/86
Name
2 No. 4th St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by owner Type Code Symbol Stamp NIA
Name Authorization No. NIA
Address Expiration Date NIA
Repair Organization P.O. No., Job No., etc.
4. Identification of System Main Steam Isolation Valve System 83B - Class 3
5. (a) Applicable Construction Code ASME III 1971 Edition, Winter 72 Addenda, NIA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 90 / 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 | NIA | NIA | SP-HCC-236-4-2 | NIA | Repaired | NIA |
| Air Supply line to D-MSIV Actuator | Bechtel | NIA | NIA | SP-HCC-236-MS015, S016, S021 | NIA | Repaired | NIA |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 284 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 N/A

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

Signed Thomas M. Crum Date 1-2-, 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 MFGS. 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 NIBS 15
National Board, State, Province, and Endorsements

Date JAN. 3 19 86

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 1/2/862 N. 9th St. Allentown, PA, 18101

Address

Sheet 1 of 12. Plant Susquehanna Steam Electric Station

Name

Unit 2P.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/AAuthorization No. N/AExpiration Date N/A

Address

4. Identification of System MAIN Steam Isolation Valve - System 83E - 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 '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" | BORGWYN | 16081 | N/A | 2-41-006F | 1976 | Repaired | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work Seal weld body to Body BONNET. JCB 1/2/868. 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 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. Grimmer
Owner or Owner's Designer, 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 ARKWEIGHT BOSTON MFGS. 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 NR7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date JAN. 3 19 86

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

Page 287 of 288

1. Owner PENNSYLVANIA POWER AND Light CO.
Name

2 North 9th ST, ALLENTOWN PA. 18101
Address

2. Plant SUSQUEHANNA STEAM ELECTRIC STATION
Name

P.O. Box 467 Berwick Pa. 18603
Address

3. Work Performed by OWNER
Name

Address

Date 1-9-87

Sheet 1 of 1

Unit 2

WA-V61155
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 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-HSL | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

Page 288 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 [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 NB7920 PA2204 NIBS 15
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 13, 19 87

APPENDIX D.2



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

Page 1 of 100

1. Owner Pennsylvania Power & Light Co. Date 10/14/86
Name
Two North Ninth St., Allentown, PA
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA
Address Unit 11
WA #V63371
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA
Address 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 19 71 Edition, Winter '72 Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 2 of 100

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Ja Blakelee J 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 Mfgs. 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
Inspector's Signature

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

Date Nov. 21, 19 86

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. Date 10/9/1986
 Name
Two North Ninth St., Allentown, PA 18101
 Address
2. Plant Susquehanna Steam Electric Station Unit #2
 Name
Berwick, PA 18603
 Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
 Name
Two North Ninth St., Allentown, PA 18101
 Address
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)

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* CWO C-66464/PMR 86-8006; CWO C-66486/PMR 86-8007

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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/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 JA 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 Mfgs. Mutual Ins. Co of Waltham, MA

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
Inspector's Signature

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

Date Nov. 19 19 86

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. Date 3/25/85
Name
Two N. 9th St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 17
Name
Berwick, PA 18603 Unit 2
Address
* See Below
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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 | Replacement | Yes |
| 2" Globe Vlv | Henry Vogt | 10-215095 | None | 2-11-138 | 1984 | Replacement | Yes |
| 1" Globe Vlv | Yarway | 5601 | None | 2-11-142 | 1976 | Replacement | Yes |
| 1" Globe Vlv | Yarway | 6551 | None | 2-11-143 | 1976 | Replacement | Yes |
| 1" Globe Vlv | Yarway | 6437 | None | 2-11-146 | 1976 | Replacement | 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 ☒ 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

* Design Package: PMR 84-3101

Work/Installation Packages: CWO's C-55036, C-55037, C-55038, C-55041, C055124, C-55125 and C-55126.

3 6 2 5 2 1 1 7 7

Page 6 of 100.

FORM NIS-2 (Back)

9. Remarks See attached Manufacturers' Date Reports for two each 2" globe valves
and four each 1" globe valves.

CERTIFICATE OF COMPLIANCE repair/

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

Type Code Symbol Stamp None

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

Signed [Signature] Date 4-28-85, 1985
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 Commissions FACTORY MUTUAL SYSTEM
Inspector's Signature NB7980 PA2204 NIBS
National Board, State, Province, and Endorsements

Date 3-29 1985

1. Owner Pennsylvania Power & Light Co. Date 3/25/85
Name
Two N. 9th St., Allentown, PA 18101 Sheet 2 of 17
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 See Page 1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th St., Allentown, PA 18101 Expiration Date N/A
Address
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) |
|-----------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 1" Globe Vlv | Yarway | .5551 | None | 2-11-147 | 1976 | Replacement | Yes |
| Sm. Pipe Sub Assembly | PP&L | N/A | N/A | SP-HRC-219-3 | 1985 | Replacement | No |
| Sm. Pipe Sub Assembly | PP&L | N/A | N/A | SP-HRC-220-3 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H6 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H7 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H8 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H9 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H10 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H11 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H12 | 1985 | Replacement | No |



1. Owner Pennsylvania Power & Light Co. Date 3/25/85
 Name
Two N. 9th St., Allentown, PA 18101 Sheet 3 of 17
 Address
2. Plant Susquehanna Steam Electric Station Unit 2
 Name
Berwick, PA 18603 See Page 1
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
 Name Authorization No. N/A
Two N. 9th St., Allentown, PA 18101 Expiration Date N/A
 Address
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-219-H13 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H14 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H15 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H16 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H17 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H18 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H19 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H20 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H7 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H8 | 1985 | Replacement | No |



1. Owner Pennsylvania Power & Light Co.Date 3/25/85

Name

Two N. 9th St., Allentown, PA 18101

Address

Sheet 4 of 172. Plant Susquehanna Steam Electric StationUnit 2

Name

Berwick, PA 18603

Address

See Page 1

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

3. Work Performed by Pennsylvania Power & Light Co.Type Code Symbol Stamp N/A

Name

Two N. 9th St., Allentown, PA 18101

Address

Authorization No. N/AExpiration Date N/A4. 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 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H10 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H11 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H12 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H13 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H14 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H15 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H16 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H17 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H18 | 1985 | Replacement | No |

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Page 10 of 100

1. Owner Pennsylvania Power & Light Co.
NameDate 3/25/85Two N. 9th St., Allentown, PA 18101
AddressSheet 5 of 172. Plant Susquehanna Steam Electric Station
NameUnit 2Berwick, PA 18603
AddressSee Page 1

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

3. Work Performed by Pennsylvania Power & Light Co.
NameType Code Symbol Stamp N/ATwo N. 9th St., Allentown, PA 18101
AddressAuthorization No. N/AExpiration Date N/A4. 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. Date 3/25/85
Name
Two N. 9th St., Allentown, PA 18101 Sheet 6 of 17
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 See Page 1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. 9th St., Allentown, PA 18101 Expiration Date N/A
Address
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)

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.

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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 12 of 100

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station
Name
Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address
- Date 3/25/85
Sheet 1 of 17
Unit 2
*See Below
Repair Organization P.O. No., Job No., etc.
- Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor 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 | Replacement | Yes |
| 2" Globe Valve | Henry Vogt | 13-215095 | None | 2-11-141 | 1984 | Replacement | Yes |
| 1" Globe Valve | Yarway | 6564 | None | 2-11-144 | 1976 | Replacement | Yes |
| 1" Globe Valve | Yarway | 6226 | None | 2-11-145 | 1976 | Replacement | Yes |
| 1" Globe Valve | Yarway | 6463 | None | 2-11-148 | 1976 | Replacement | 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 ☒ 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017
*Design Package: PMR 84-3101
Work/Installation Package: CWO's C-55038, C-55039, C-55040, C-55041, C-55123, C-55125, C-55126

Page 13 of 100

FORM NIS-2 (Back)

Remarks See attached Manufacturer's Data Report for each globe valve.
Applicable Manufacturer's Data Reports to be attached

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

Type Code Symbol Stamp None

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

Signed RC 7/Kerrin Date 3-28-85, 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 MFGS 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 FACTORY MUTUAL SYSTEM
Inspector's Signature Commissions NB7980 PA2204 NIBS
National Board, State, Province, and Endorsements

Date 3-29, 1985

SUPPLEMENTAL SHEET

Page 14 of 100

1. Owner Pennsylvania Power & Light Co.
 Name
Two N. 9th Street, Allentown, PA 18101
 Address

Date 3/25/85Sheet 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/AAuthorization No. N/AExpiration 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

Page 15 of 100

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 3/25/85Sheet 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/AAuthorization No. N/AExpiration 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 | Replace-ment | No |
|-----------------|------|-----|-----|----------------|------|--------------|----|

| | | | | | | | |
|-----------------|------|-----|-----|----------------|------|--------------|----|
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H34 | 1985 | Replace-ment | No |
|-----------------|------|-----|-----|----------------|------|--------------|----|

| | | | | | | | |
|-----------------|------|-----|-----|----------------|------|--------------|----|
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H35 | 1985 | Replace-ment | No |
|-----------------|------|-----|-----|----------------|------|--------------|----|

| | | | | | | | |
|-----------------|------|-----|-----|----------------|------|--------------|----|
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H36 | 1985 | Replace-ment | No |
|-----------------|------|-----|-----|----------------|------|--------------|----|

| | | | | | | | |
|-----------------|------|-----|-----|----------------|------|--------------|----|
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H37 | 1985 | Replace-ment | No |
|-----------------|------|-----|-----|----------------|------|--------------|----|

| | | | | | | | |
|-----------------|------|-----|-----|----------------|------|--------------|----|
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H38 | 1985 | Replace-ment | No |
|-----------------|------|-----|-----|----------------|------|--------------|----|

| | | | | | | | |
|-----------------|------|-----|-----|----------------|------|--------------|----|
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-220-H39 | 1985 | Replace-ment | 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 | Replace-ment | No |
|-----------------------|------|-----|-----|--------------|------|--------------|----|

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SUPPLEMENTAL SHEET

Page 16 of 100

1. Owner Pennsylvania Power & Light Co. Date 3/25/85
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 4 of 17
Name
Berwick, PA 18603 Unit 2
Address
See Page 1
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th Street, Allentown, PA 18101 Authorization No. N/A
Address 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 | Replacement | 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 | Replacement | Yes | |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H22 | 1985 | Replacement | No | |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H23 | 1985 | Replacement | No | |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H24 | 1985 | Replacement | No | |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H25 | 1985 | Replacement | No | |

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SUPPLEMENTAL SHEET

Page 17 of 100

1. Owner Pennsylvania Power & Light Co.
 Name
Two N. 9th Street, Allentown, PA 18101
 Address

Date 3/25/85Sheet 5 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/AAuthorization No. N/AExpiration 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 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H27 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H28 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H29 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H30 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H31 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H32 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H33 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H34 | 1985 | Replacement | No |
| Sm. Pipe Hanger | PP&L | N/A | N/A | SP-HRC-219-H35 | 1985 | Replacement | No |



SUPPLEMENTAL SHEET

Page 18 of 100

1. Owner Pennsylvania Power & Light Co.Date 3/25/85

Name

Two N. 9th Street, Allentown PA 18101Sheet 6 of 17

Address

2. Plant Susquehanna Steam Electric StationUnit 2

Name

Berwick, PA 18603

Address

3. Work Performed by Pennsylvania Power & Light Co.See Page 1
Repair Organization P.O. No., Job No., etc.

Name

Two N. 9th Street, Allentown, PA 18101Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A

Address

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



SUPPLEMENTAL SHEET

Page 19 of 100

1. Owner Pennsylvania Power & Light Co. Date 3/25/85
Name
Two N. 9th Street, Allentown, PA 18101 Sheet 7 of 17
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
Berwick, PA 18603 See Page 1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two N. 9th Street, Allentown, PA 18101 Authorization No. N/A
Address 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.



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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 20 of 100

1. Owner PENNSYLVANIA POWER & LIGHT CO.

Name

Date 1/6/86TWO N. 9TH ST. ALLENTOWN, PA 18101

Address

Sheet 1 of 22. Plant SUSQUEHANNA STEAM ELECTRIC STATION

Name

Unit 2P.O. Box 467, BERWICK, PA 18603

Address

CWO C-4425 / PMR 83-59

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

3. Work Performed by OWNER

Name

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A

Address

4. Identification of System RHR PUMP ROOM COOLING, 234 U. III5. (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 | CONTROMATKS | 85225-13-6 | 328 | HV-21144A | 1979 | REPLACEMENT | YES |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

7. Description of Work INSTALLED BUTTERFLY VALVE8. 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 21 of 100

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. Carls 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 MFGS. 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 NIBSIA
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN. 20 1986

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 Pennsylvania Power & Light Co. Date 12/04/84
Name
Two N. 9th Street, Allentown PA. 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 4
Name
Berwick, Pa. 18603 Unit #2
Address
3. Work Performed by Pennsylvania Power & Light Co. * See Below
Name
Two N. Ninth Street, Allentown, PA. 18101 Repair Organization P.O. No., Job No., etc.
Address
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 1981 Winter '81
80
12/1/84
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 Mc
8. Tests Conducted: Hydrostatic ☒ 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

* Design Packages: PMR's 83-592D&E
Work Installation Packages: CWO'S C-44425, 44426, 44428, 44444, 44445 and 44446

1245
1245
1245

Page 23 of 100

FORM NIS-2 (Back)

9. Remarks 1. See attached Manufacturers Data Reports for two each 2" globe valves
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 MEGRS. 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

FACTORY MUTUAL SYSTEM
Commissions PA. 2204 NB7980 NIBS
National Board, State, Province, and Endorsements

Date DEC. 13 19 84

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

Page 24 of 100

1. Owner Pennsylvania Power & Light Co.
Name
Two N. 9th Street, Allentown, PA 18101
Address

Date 5/3/85

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
Name
Berwick, PA 18603
Address

Unk. (#2)
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
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 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 105 psig 64°F
Other ☐ Pressure * psi Test Temp. * °F CWO C55047 125 psig 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.

Page 25 of 100

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 MFGES. 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
Inspector's Signature

Commissions PA 2204 NB7980 NIBS
National Board, State, Province, and Endorsements

Date MAY 10 1985

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

Page 26 of 100

1. Owner Pennsylvania Power & Light Co. Date October 27, 1986
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 See Continuation Sheet No. 2
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address 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 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" 1500# CS GB Valve | Yarway | B2187 | N/A | 2-51-815 | 1980 | Replacement | Yes |
| 14" Pipe Assembly | PP&L | N/A | N/A | HBC-217-1 | 1986 | Replacement | No |
| 14" Pipe Assembly | Bechtel | N/A | N/A | HBC-217-1 | 1983 | Replaced | Yes |
| 1" Pipe Assembly | PP&L | N/A | N/A | SPHBC-217-1 | 1986 | Replacement | No |
| 14" Pipe Support | Bechtel | N/A | N/A | HBC-217-H9 | 1983 | Replaced | Yes |

7. Description of Work See Continuation Sheet No. 2

8. Tests Conducted: Hydrostatic ☒ 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 Repair &

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

Type Code Symbol Stamp None

Certificate of Authorization No. N/A

Expiration Date N/A

Signed *[Signature]* 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 Mfgs. Mutual Ins. Co. of Waltham, MA

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.

William R. Rogers III
Inspector's Signature

Commissions. NR7980 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 19 19 86

1. Owner Pennsylvania Power & Light Company Date October 27, 1986
Name
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 2
Address

2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 * See Below
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address

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

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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 29 of 100

1. Owner Pennsylvania Power & Light Co. Date October 31, 1986
 Name
Two North Ninth St., Allentown, PA 18101
 Address
2. Plant Susquehanna Steam Electric Station Unit II
 Name
P.O. Box 467, Berwick, PA 18603
 Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
 Name
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 | Replacement | Yes |
| 1" Manual Globe Valve | Kerotest | TR-34-23 | 10964 | 2-41-022B | 1976 | Replacement | Yes |
| 1" Manual Globe Valve | Kerotest | TR-34-1 | 10942 | 2-41-023A | 1976 | Replacement | Yes |
| 1" Manual Globe Valve | Kerotest | TR-34-15 | 10956 | 2-41-023B | 1976 | Replacement | 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 ☒ 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

*Design Change Package - DCP/PMR 85-3143

Work/Installation Packages: CWC'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 repair/

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

Type Code Symbol Stamp None

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

Signed Ad. Black 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 Mfgs. Mutual Ins. Co.
Waltham, Mass.

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

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

Date October 31, 1986

Sheet 2 of 2

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

Unit II

* See sheet 1

Repair Organization P.O. No., 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 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. Date October 31, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 2
Name
Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Unit 2
Name
Two North Ninth St., Allentown, PA 18101
Address
4. Identification of System Feedwater (System 245A - Class 2)
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 Addenda

* See Below

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date 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) |
|-------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 3" Mtr Oper. Gate Valve | Anchor/Darling | E6734-1-3 | N/A | HV 2-41-82A | 1986 | Replacement | Yes |
| 3" Mtr Oper. Gate Valve | Anchor/Darling | E6734-1-4 | N/A | HV 2-41-82B | 1986 | Replacement | Yes |
| 3" Manual Gate Valve | Anchor/Darling | E6734-2-3 | N/A | 2-41-021A | 1986 | Replacement | Yes |
| 3" Manual Gate Valve | Anchor/Darling | E6734-2-4 | N/A | 2-41-021B | 1986 | Replacement | Yes |
| 1" Manual Glove Valve | Henry Vogt | 13-215319 | N/A | 2-47-024A | 1986 | Replacement | 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)

Page 33 of 100

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 repair/

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

Type Code Symbol Stamp None

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

Signed J.A. 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 Mfgs. Mutual Ins. Co. of Waltham, Mass

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
Inspector's Signature

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

Date Nov. 12, 1986

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

Date October 31, 1986

Sheet 2 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) |
|-------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 1" Manual Globe Valve | Henry Vogt | 20-215319 | N/A | 2-42-025A | 1986 | Replacement | Yes |
| 1" Manual Globe Valve | Henry Vogt | 16-215319 | N/A | 2-41-026A | 1986 | Replacement | Yes |
| 1" Manual Globe Valve | Henry Vogt | 19-215319 | N/A | 2-41-026B | 1986 | Replacement | Yes |
| 1" Manual Globe Valve | Henry Vogt | 15-215319 | N/A | 2-41-027A | 1986 | Replacement | Yes |
| 1" Manual Globe Valve | Henry Vogt | 17-215319 | N/A | 2-41-027B | 1986 | Replacement | 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 |

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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 35 of 100

1. Owner Pennsylvania Power & Light Co. Date Oct. 27, 1986
Name
Two N. Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
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 ☒ Pneumatic ☐ Nominal Operating Pressure ☐ TP-249-015 Rev. 1
Other ☒ Pressure 550 psi Test Temp. 76 °F 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)
Applicable Manufacturer's Data Reports to be attached
are attached.

CERTIFICATE OF COMPLIANCE repair &

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

Type Code Symbol Stamp_____None

Certificate of Authorization No. SEN/A

4. Expiration Date N/A

Signed J. D. 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 Mfgs. Mutual Ins. Co. of Waltham, MA have inspected the components described

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
Inspector's Signature

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

Date Nov. 20 1936

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 | Replacement | No |
| 20" Flow Orifice | Vickery Simms | N/A | N/A | FO-25100B | 1986 | Replacement | No |
| 20" Flow Orifice | Vickery Simms | N/A | N/A | FO-25100C | 1986 | Replacement | No |
| 20" Flow Orifice | Vickery Simms | N/A | N/A | FO-25100D | 1986 | Replacement | 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 |
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1. Owner Pennsylvania Power & Light Co. Date October 27, 1986
 Name
Two North Ninth St., Allentown, PA 18101
 Address
2. Plant Susquehanna Steam Electric Station Unit II
 Name
P.O. Box 467, Berwick, PA 18603
 Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
 Name
Two North Ninth St., Allentown, PA 18101
 Address
 Authorization No. N/A
 Expiration Date N/A
4. Identification of System Residual Heat Removal System 249A 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 | Replacement | No |
| Small Pipe Assembly | PP&L | N/A | N/A | SP-GBB-206-2 | 1986 | Replacement | 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 | Replacement | 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 | Replacement | No |

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

Date Oct. 27, 1986
 Sheet 4 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

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 Certificate 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.

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1. Owner Pennsylvania Power & Light Co. Date Oct. 27, 1986
Two N. Ninth St., Allentown, PA 18101 Sheet 5 of 5
Name Address
 2. Plant Susquehanna Steam Electric Station Unit II
P.O. Box 467, Berwick, PA 18603 See Continuation Sheet No. 4 & 5
Name Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Tow N. Ninth St., Allentown, PA 18101 Authorization No. N/A
Name Address Expiration Date N/A
 4. Identification of System Residual Heat Removal System 249A II
 5. (a) Applicable Construction Code Section III, 71 Edition, Winter '72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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

Page 41 of 100

1. Owner Pennsylvania Power & Light Co. Date 12/04/84
Name
Address Two N. 9th Street, Allentown, PA. 18101
2. Plant Susquehanna Steam Electric Station Unit #2
Name
Address Berwick, PA. 18603
Repair Organization P.O. No., Job No., etc. PMR 84-3079, CWO's C-44524, C-44525 and C-44526
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Address Two N. 9th Street, Allentown, PA. 18101 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 Winter '81
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 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 ☒ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure 175 psi Test Temp. 66 °F

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

Page 42 of 100

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 exempted 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

W. Keen
Owner or Owner's Designee, Title

Date

12-12-84

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CERTIFICATE OF INSERVICE INSPECTION

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 MEGRS. 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III

Inspector's Signature

Commissions

PA 2204 NB 7980 NIBS

National Board, State, Province, and Endorsements

Date

DEC. 13

1984

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

Page 43 of 100

1. Owner Pennsylvania Power and Light Co. Date October 9, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
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. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal 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 |
| | | | | | | | |
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Support Modification To Facilitate RHR Heat

7. Description of Work 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.

Page 45 of 100

Date October 14, 1986

Sheet 1 of 1

Unit II
WA #V63370
 Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp None
 Authorization No. N/A
 Expiration Date 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) |
|---------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 | Replacement | No |
| | | | | | | | |
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8: Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ EXEMPT
Other ☐ Pressure _____ psi Test Temp. _____ °F

(12/82)



Page 46 of 100

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Ja Blakeslee Date November 24, 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 Mfgs. 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

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. Date October 9, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal 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 |
| | | | | | | | |
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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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 4B of 100

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.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed JA 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 Mfgs. 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. Roguski
Inspector's Signature

FACTORY MUTUAL SYSTEM
Commissions NB7950 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov 21 19 86

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

Page 49 of 100

1. Owner Pennsylvania Power and Light Co. Date 10/8/86
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
Berwick, PA 18603 Unit II
Address CWO C55531, PMR 85-3137
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal - 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 |
| | | | | | | | |
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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.

Page 50 of 100

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Ja 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 Mfgs. 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. Regen 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

Page 51 of 100

1. Owner Pennsylvania Power & Light Co. Date Oct. 27, 1986
Name
- Two N. Ninth St., Allentown, PA 18101 Sheet 1 of 4
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
- P.O. Box 467, Berwick, PA 18603 See Continuation Sheet No. 2&4
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
- Two N. Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal/Shutdown Cooling Mode 249G I
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/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 ☒ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure 1910 psi Test Temp. 76 °F TP-249-015 Rev. 1
1900 psi 80 °F 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.

Page 52 of 100.

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 repair &

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

Type Code Symbol Stamp 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 Mfgs. 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 19 86

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 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 | Replacement | Yes |
| 1" 1500# s.s. GBY Valve | Borg-Warner | 80758 | N/A | 2-51-113 | 1985 | Replacement | Yes |
| 1" 1500# s.s. GBY Valve | Borg-Warner | 80755 | N/A | 2-51-114 | 1985 | Replacement | 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 | Replacement | No |
| 24" Pipe Assembly | PP&L | N/A | N/A | DCA-210-2 | 1986 | Replacement | 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 | Replacement | No |



1. Owner Pennsylvania Power & Light Co.Date Oct. 27, 1986

Name

Two N. Ninth St., Allentown, PA 18101

Address

Sheet 3 of 42. Plant Susquehanna Steam Electric StationUnit II

Name

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.Type Code Symbol Stamp N/A

Name

Two N. Ninth St., Allentown, PA 18101

Address

Authorization No. N/AExpiration Date N/A4. Identification of System Residual Heat Removal/Shutdown Cooling Mode 249G I5. (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/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 | Replacement | 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 | Replacement | 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



- 100-98-22 96 100
1. Owner Pennsylvania Power & Light co. Date October 27, 1986
 Name
Two North Ninth St., Allentown, PA 18101
 Address
 2. Plant Susquehanna Steam Electric Station Unit II
 Name
P.O. Box 467, Berwick, PA 18603
 Address
See Below
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
 Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
 Address 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 |



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- NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report 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 57 of 100

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 repair &

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

Type Code Symbol Stamp N/A

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

Signed *Ja. Blokeslee* 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 Mfgs. 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
Inspector's Signature

Commissions NB7930 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 20, 1986

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, 1971 Edition, Winter '72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/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
Two N. Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station
Name
P.O. Box 467, Berwick, PA 18603
Address
3. Work Performed by Pennsylvania Power & Light Co.
Name
Two N. Ninth St., Allentown, PA 18101
Address
4. Identification of System RHR Shutdown Cooling Mode 249G II
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/Winter 1981 Addenda

Date Oct. 27, 1986
 Sheet 3 of 4
 Unit II
 See Continuation Sheet No. 4
 Repair Organization P.O. No., Job No., etc.
 Type Code Symbol Stamp N/A
 Authorization No. N/A
 Expiration Date N/A

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

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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. Date November 6, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
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. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor 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.

Page 62 of 100

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/repared 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.

| CERTIFICATE OF COMPLIANCE <u>repair/</u> | |
|--|---------------------------------------|
| We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code, Section XI. <u>repair or replacement</u> | |
| Type Code Symbol Stamp | <u>N/A</u> |
| Certificate of Authorization No. | <u>N/A</u> Expiration Date _____ |
| Signed <u>J. Blakeslee</u> | Date <u>November 12,</u> 19 <u>86</u> |
| Owner or Owner's Designee, Title <u>Superintendent of Plant</u> | |

| CERTIFICATE OF INSERVICE INSPECTION | |
|---|---|
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>Arkwright Boston Mfgs. Mutual Ins. Co</u> of <u>Waltham, MA</u> have inspected the components described in this Owner's Report during the period <u>SEP 30, 1986</u> to <u>OCT 23, 1986</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in 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 | |
| <u>William R. Rogers III</u>
Inspector's Signature | Commissions <u>NB7980 PA2204 NIBS IS</u>
National Board, State, Province, and Endorsements |
| Date <u>Nov. 19</u> 19 <u>86</u> | |

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

Page 6.3 of 100

1. Owner Pennsylvania Power & Light Co. Date Oct. 27, 1986
Name
Two N. Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
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. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Two N. Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor Core Injection Cooling Steam Supply 250B II
5. (a) Applicable Construction Code Section IIIg 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 | Replacement | 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 | Replacement | 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 ☒ 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.

Page 64 of 100

FORM NIS-2 (Back)

9. Remarks All applicable Manufacturer's Code Data Reports (NPV-1 forms)
Applicable Manufacturer's Data Reports to be attached
are attached.

| CERTIFICATE OF COMPLIANCE <u>repair & replacement</u> | |
|---|--------------------------------|
| We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code, Section XI.
<u>repair or replacement</u> | |
| Type Code Symbol Stamp | <u>None</u> |
| Certificate of Authorization No. | <u>N/A</u> |
| Expiration Date | <u>N/A</u> |
| Signed <u>J. A. Blakeslee, Jr.</u> | Date <u>November 12, 1986</u> |
| Owner or Owner's Designee, Title | <u>Superintendent of Plant</u> |

| CERTIFICATE OF INSERVICE INSPECTION | |
|--|--|
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>Arkwright Boston Mfgs. Mutual Ins. Co.</u>
<u>Waltham, MA</u> have inspected the components described in this Owner's Report during the period <u>SEP. 15, 1986</u> to <u>OCT. 13, 1986</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. | |
| <u>William R. Rogers III</u>
Inspector's Signature | Commissions <u>NB7980 PA2204</u> <u>NIBS IS</u>
National Board, State, Province, and Endorsements |
| Date <u>Nov. 20</u> <u>1986</u> | |

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 | Replacement | 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
Two N. Ninth St., Allentown, PA 18101
Address

Date Oct. 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 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 Reactor Core Injection Cooling Steam Supply 250B II

5. (a) Applicable Construction Code Section IIN9 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

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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 67 of 100

1. Owner Pennsylvania Power & Light Co. Date October 31, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit 2
Name
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. Type Code Symbol Stamp N/A
Name
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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Replace original disc with a new dual seat disc, thus improving

7. Description of Work 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Page 68 of 100

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 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. C. 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 Mfgs. 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.

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

Date Nov. 19 19 86

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. Date October 31, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
P.O. Box 467, Berwick, PA 18603 Unit 2
Address
* See Below
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address
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 19 80, Winter '81.

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------|-------------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Small Pipe Support | Terry Steam Turbine Co. | N/A | N/A | SP-SK-72-H18 | 1974 | Replaced | No |
| 1/2" CBB Globe | Yarway | A-1125 | None | LQ-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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

* PMRs 85-3070 & 85-8036

CWOs C-55791, C-55792, C-55793, C-66487, C-66481 and C-66482

Page 70 of 100

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair/

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

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date _____

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 Penna and employed by Arkwright Boston Mfgs. Mutual Ins. Co 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

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. Date October 27, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603
Address See Continuation Sheet No. 3
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System StandBy Liquid Control 253A II
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) |
|------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 | Replacement | 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 | Replacement | Yes |
| 2" 1500# SS Gate Valve | Borg-Warner | 17984 | N/A | 2-48-F014 | 1976 | Replacement | Yes |

7. Description of Work See Continuation Sheet No. 3
8. Tests Conducted: Hydrostatic ☒ 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.

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FORM NIS-2 (Back)

9. Remarks The new Borg-Warner valve serial numbers 72907, 72913, and 17984
Applicable Manufacturer's Data Reports to be attached
manufacturer's data reports are attached.

CERTIFICATE OF COMPLIANCE repair/

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

Type Code Symbol Stamp None

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

Signed J. A. Blokslee 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.
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
Inspector's Signature

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

Date Nov. 20 19 86

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. Date October 27, 1986
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 3
Address
2. Plant Susquehanna Steam Electric Station Unit II
P.O. Box 467, Berwick, PA 18603 See Below
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address 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 |



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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 75 of 100

1. Owner Pennsylvania Power & Light Co. Date 12/04/84
Name
Two N. 9th Street, Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Unit (#2)
Name
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. Type Code Symbol Stamp N/A
Name
Two N. 9th Street, Allentown, PA. 18101
Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System Emergency Service Water (System 254A), C1.3
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 Winter '81
80
12/10/84
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 | 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 ☒ 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Type Code Symbol Stamp NONE

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

Signed W. Kewen 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 MEGRS 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 Commissions PA2204 NB7980 NIBS
Inspector's Signature National Board, State, Province, and Endorsements

Date DEC. 13 1984

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. Date July 2, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
Berwick, PA 18603 Unit II
Address CWO C55773/PMR 85-8011
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System 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.

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. Date 1/20/86
Name
TWO NORTH 9TH ST. ALLENTOWN, PA 18101 Sheet 1 of 1
Address
2. Plant SUSQUEHANNA STEAM ELECTRIC STATION Unit 2
Name
P.O. BOX 467, BERWICK, PA 18603 CWO C-44427
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by OWNER Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 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 | B4 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

862 522 11477

Page 80 of 100

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 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 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 MEGRS. 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 NIBS IS
National Board, State, Province, and Endorsements

Date FEB 25, 19 86

86252211478

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
Two North Ninth St., Allentown, PA 18101
 Address

Date July 28, 1986Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station
 Name
Berwick, PA 18603
 Address

Unit II

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
Two North Ninth St., Allentown, PA 18101
 Address

Type Code Symbol Stamp NoneAuthorization No. N/AExpiration 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-208-H1 | 1986 | Replacement | No |
| Large Pipe Hanger | PP&L | N/A | N/A | DBC-208-H2 | 1986 | Replacement | No |

Added Non-ASME Isolation Valve and ASME Check Valves To Non-ASME

7. Description of Work CRD Drive Water Supply Line, including ASME supports

8. Tests Conducted: Hydrostatic ☒ 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NIS-2 (Back)

9. Remarks Manufacturer's data reports attached. This NIS-2 report is being
Applicable Manufacturer's Data Reports to be attached
filed for record purposes only. No N-5 package exists for System 255A-III.

CERTIFICATE OF COMPLIANCE repair/

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

Type Code Symbol Stamp NONE

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

Signed J. A. 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 Mfgs. 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. Rogers III
Inspector's Signature

Commissions NB7960 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 20 19 86

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

As Required by the Provisions of the ASME Code Section XI

Page B3 of 100

1. Owner Pennsylvania Power & Light Co. Date 4-23-84
Name
Two North Ninth St., Allentown, PA Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 * See Below
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA Expiration Date N/A
Address
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
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 Thru Summer 1978 Addenda 1567, & 1571 Code Case
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 N₂ 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 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.
NameDate 9-30-86Two North Ninth St., Allentown, PA 18101
AddressSheet 1 of 22. Plant Susquehanna Steam Electric Station
NameUnit IIBerwick, PA 18603
Address

* See Below

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

3. Work Performed by Pennsylvania Power & Light Co.
NameType Code Symbol Stamp NoneTwo North Ninth St., Allentown, PA 18101
AddressAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Water Clean-Up, SUS 261A-III5. (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-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 connection8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

(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

Page 86 of 100

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp 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 Mfgs. Mutual Ins. Co. 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
Inspector's Signature

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

Date Nov. 21, 19 86

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

Date 9-30-86

Sheet 2 of 2

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

Unit II

* See Sheet 1

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

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

Type Code Symbol Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Water Clean-Up 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 Required or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Required, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 |

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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 86 of 100

1. Owner Pennsylvania Power and Light Co. Date October 30, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
Berwick, PA 18603 Unit II
Address PMR 84-3127, CWO C44930
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA 18101 Expiration Date N/A
Address
4. Identification of System Reactor 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.

Page 89 of 100

FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp None

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

Signed J. A. Blokeslee 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 Mfgs. 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.

FACTORY MUTUAL SYSTEM

William R. Rogers III
Inspector's Signature

Commissions NB79CO PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 20 19 86

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

Page 90 of 100

1. Owner Pennsylvania Power & Light Co. Date 4-23-84
Name
Two North Ninth St., Allentown, PA Sheet 1 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 * See Below
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA Expiration Date N/A
Address
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's 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 | Replacement | No |
| Small Pipe Subassembly | PP&L | N/A | N/A | SP-HCB-257-1 | 1984 | Replacement | No |
| Small Pipe Support | PP&L | N/A | N/A | SP-HCB-256-H1 | 1984 | Replacement | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82)

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

*CWO No's: C44132, C44136, C44150, C44152, C44164, C44165 and C44178/PMR 83-745

Page 91 of 100

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 _____ 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 | <u>W. Thompson</u> Date <u>May 14</u> , 19 <u>86</u> |
| Owner or Owner's Designee, Title <u>Superintendent of Plant</u> | |

| CERTIFICATE OF INSERVICE INSPECTION | |
|---|---|
| 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 <u>Arkwright Boston Mfg's. Mutual Ins. Co.</u> of <u>Waltham, MA</u> | |
| _____ have inspected the components described in this Owner's Report during the period <u>MAR. 30, 1984</u> to <u>APR 18, 1984</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in 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 | |
| <u>William R. Rogers III</u>
Inspector's Signature | Commissions <u>NB7980 PA2204 NIBS IS</u>
National Board, State, Province, and Endorsements |
| Date <u>MAY 20</u> 19 <u>86</u> | |

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

Page 92 of 100

1. Owner Pennsylvania Power & Light Co. Date 4-23-84
Name
Two North Ninth St., Allentown, PA Sheet 2 of 2
Address
2. Plant Susquehanna Steam Electric Station Unit II
Name
P.O. Box 467, Berwick, PA 18603 * See Below
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name Authorization No. N/A
Two North Ninth St., Allentown, PA Expiration Date N/A
Address
4. Identification of System Nitrogen Make-Up, S/U 273A-II
5. (a) Applicable Construction Code Section III, 1971 Edition, Winter 1972 Addenda Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1977 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 |

214 7 2 162 3 1 124 4 1 273 5 1 4 6 1 10 7 1 16 8 1 22 9 1 28 10 1 34 11 1 40 12 1 46 13 1 52 14 1 58 15 1 64 16 1 70 17 1 76 18 1 82 19 1 88 20 1 94 21 1 100 22 1 106 23 1 112 24 1 118 25 1 124 26 1 130 27 1 136 28 1 142 29 1 148 30 1 154 31 1 160 32 1 166 33 1 172 34 1 178 35 1 184 36 1 190 37 1 196 38 1 202 39 1 208 40 1 214 41 1 220 42 1 226 43 1 232 44 1 238 45 1 244 46 1 250 47 1 256 48 1 262 49 1 268 50 1 274 51 1 280 52 1 286 53 1 292 54 1 298 55 1 304 56 1 310 57 1 316 58 1 322 59 1 328 60 1 334 61 1 340 62 1 346 63 1 352 64 1 358 65 1 364 66 1 370 67 1 376 68 1 382 69 1 388 70 1 394 71 1 400 72 1 406 73 1 412 74 1 418 75 1 424 76 1 430 77 1 436 78 1 442 79 1 448 80 1 454 81 1 460 82 1 466 83 1 472 84 1 478 85 1 484 86 1 490 87 1 496 88 1 502 89 1 508 90 1 514 91 1 520 92 1 526 93 1 532 94 1 538 95 1 544 96 1 550 97 1 556 98 1 562 99 1 568 100 1 574 101 1 580 102 1 586 103 1 592 104 1 598 105 1 604 106 1 610 107 1 616 108 1 622 109 1 628 110 1 634 111 1 640 112 1 646 113 1 652 114 1 658 115 1 664 116 1 670 117 1 676 118 1 682 119 1 688 120 1 694 121 1 700 122 1 706 123 1 712 124 1 718 125 1 724 126 1 730 127 1 736 128 1 742 129 1 748 130 1 754 131 1 760 132 1 766 133 1 772 134 1 778 135 1 784 136 1 790 137 1 796 138 1 802 139 1 808 140 1 814 141 1 820 142 1 826 143 1 832 144 1 838 145 1 844 146 1 850 147 1 856 148 1 862 149 1 868 150 1 874 151 1 880 152 1 886 153 1 892 154 1 898 155 1 904 156 1 910 157 1 916 158 1 922 159 1 928 160 1 934 161 1 940 162 1 946 163 1 952 164 1 958 165 1 964 166 1 970 167 1 976 168 1 982 169 1 988 170 1 994 171 1 1000 172 1 1006 173 1 1012 174 1 1018 175 1 1024 176 1 1030 177 1 1036 178 1 1042 179 1 1048 180 1 1054 181 1 1060 182 1 1066 183 1 1072 184 1 1078 185 1 1084 186 1 1090 187 1 1096 188 1 1102 189 1 1108 190 1 1114 191 1 1120 192 1 1126 193 1 1132 194 1 1138 195 1 1144 196 1 1150 197 1 1156 198 1 1162 199 1 1168 200 1 1174 201 1 1180 202 1 1186 203 1 1192 204 1 1198 205 1 1204 206 1 1210 207 1 1216 208 1 1222 209 1 1228 210 1 1234 211 1 1240 212 1 1246 213 1 1252 214 1 1258 215 1 1264 216 1 1270 217 1 1276 218 1 1282 219 1 1288 220 1 1294 221 1 1300 222 1 1306 223 1 1312 224 1 1318 225 1 1324 226 1 1330 227 1 1336 228 1 1342 229 1 1348 230 1 1354 231 1 1360 232 1 1366 233 1 1372 234 1 1378 235 1 1384 236 1 1390 237 1 1396 238 1 1402 239 1 1408 240 1 1414 241 1 1420 242 1 1426 243 1 1432 244 1 1438 245 1 1444 246 1 1450 247 1 1456 248 1 1462 249 1 1468 250 1 1474 251 1 1480 252 1 1486 253 1 1492 254 1 1498 255 1 1504 256 1 1510 257 1 1516 258 1 1522 259 1 1528 260 1 1534 261 1 1540 262 1 1546 263 1 1552 264 1 1558 265 1 1564 266 1 1570 267 1 1576 268 1 1582 269 1 1588 270 1 1594 271 1 1600 272 1 1606 273 1 1612 274 1 1618 275 1 1624 276 1 1630 277 1 1636 278 1 1642 279 1 1648 280 1 1654 281 1 1660 282 1 1666 283 1 1672 284 1 1678 285 1 1684 286 1 1690 287 1 1696 288 1 1702 289 1 1708 290 1 1714 291 1 1720 292 1 1726 293 1 1732 294 1 1738 295 1 1744 296 1 1750 297 1 1756 298 1 1762 299 1 1768 300 1 1774 301 1 1780 302 1 1786 303 1 1792 304 1 1798 305 1 1804 306 1 1810 307 1 1816 308 1 1822 309 1 1828 310 1 1834 311 1 1840 312 1 1846 313 1 1852 314 1 1858 315 1 1864 316 1 1870 317 1 1876 318 1 1882 319 1 1888 320 1 1894 321 1 1900 322 1 1906 323 1 1912 324 1 1918 325 1 1924 326 1 1930 327 1 1936 328 1 1942 329 1 1948 330 1 1954 331 1 1960 332 1 1966 333 1 1972 334 1 1978 335 1 1984 336 1 1990 337 1 1996 338 1 2000 339 1 2006 340 1 2012 341 1 2018 342 1 2024 343 1 2030 344 1 2036 345 1 2042 346 1 2048 347 1 2054 348 1 2060 349 1 2066 350 1 2072 351 1 2078 352 1 2084 353 1 2090 354 1 2096 355 1 2102 356 1 2108 357 1 2114 358 1 2120 359 1 2126 360 1 2132 361 1 2138 362 1 2144 363 1 2150 364 1 2156 365 1 2162 366 1 2168 367 1 2174 368 1 2180 369 1 2186 370 1 2192 371 1 2198 372 1 2204 373 1 2210 374 1 2216 375 1 2222 376 1 2228 377 1 2234 378 1 2240 379 1 2246 380 1 2252 381 1 2258 382 1 2264 383 1 2270 384 1 2276 385 1 2282 386 1 2288 387 1 2294 388 1 2300 389 1 2306 390 1 2312 391 1 2318 392 1 2324 393 1 2330 394 1 2336 395 1 2342 396 1 2348 397 1 2354 398 1 2360 399 1 2366 400 1 2372 401 1 2378 402 1 2384 403 1 2390 404 1 2396 405 1 2402 406 1 2408 407 1 2414 408 1 2420 409 1 2426 410 1 2432 411 1 2438 412 1 2444 413 1 2450 414 1 2456 415 1 2462 416 1 2468 417 1 2474 418 1 2480 419 1 2486 420 1 2492 421 1 2498 422 1 2504 423 1 2510 424 1 2516 425 1 2522 426 1 2528 427 1 2534 428 1 2540 429 1 2546 430 1 2552 431 1 2558 432 1 2564 433 1 2570 434 1 2576 435 1 2582 436 1 2588 437 1 2594 438 1 2600 439 1 2606 440 1 2612 441 1 2618 442 1 2624 443 1 2630 444 1 2636 445 1 2642 446 1 2648 447 1 2654 448 1 2660 449 1 2666 450 1 2672 451 1 2678 452 1 2684 453 1 2690 454 1 2696 455 1 2702 456 1 2708 457 1 2714 458 1 2720 459 1 2726 460 1 2732 461 1 2738 462 1 2744 463 1 2750 464 1 2756 465 1 2762 466 1 2768 467 1 2774 468 1 2780 469 1 2786 470 1 2792 471 1 2798 472 1 2804 473 1 2810 474 1 2816 475 1 2822 476 1 2828 477 1 2834 478 1 2840 479 1 2846 480 1 2852 481 1 2858 482 1 2864 483 1 2870 484 1 2876 485 1 2882 486 1 2888 487 1 2894 488 1 2900 489 1 2906 490 1 2912 491 1 2918 492 1 2924 493 1 2930 494 1 2936 495 1 2942 496 1 2948 497 1 2954 498 1 2960 499 1 2966 500 1 2972 501 1 2978 502 1 2984 503 1 2990 504 1 2996 505 1 3000 506 1 3006 507 1 3012 508 1 3018 509 1 3024 510 1 3030 511 1 3036 512 1 3042 513 1 3048 514 1 3054 515 1 3060 516 1 3066 517 1 3072 518 1 3078 519 1 3084 520 1 3090 521 1 3096 522 1 3102 523 1 3108 524 1 3114 525 1 3120 526 1 3126 527 1 3132 528 1 3138 529 1 3144 530 1 3150 531 1 3156 532 1 3162 533 1 3168 534 1 3174 535 1 3180 536 1 3186 537 1 3192 538 1 3198 539 1 3204 540 1 3210 541 1 3216 542 1 3222 543 1 3228 544 1 3234 545 1 3240 546 1 3246 547 1 3252 548 1 3258 549 1 3264 550 1 3270 551 1 3276 552 1 3282 553 1 3288 554 1 3294 555 1 3300 556 1 3306 557 1 3312 558 1 3318 559 1 3324 560 1 3330 561 1 3336 562 1 3342 563 1 3348 564 1 3354 565 1 3360 566 1 3366 567 1 3372 568 1 3378 569 1 3384 570 1 3390 571 1 3396 572 1 3402 573 1 3408 574 1 3414 575 1 3420 576 1 3426 577 1 3432 578 1 3438 579 1 3444 580 1 3450 581 1 3456 582 1 3462 583 1 3468 584 1 3474 585 1 3480 586 1 3486 587 1 3492 588 1 3498 589 1 3504 590 1 3510 591 1 3516 592 1 3522 593 1 3528 594 1 3534 595 1 3540 596 1 3546 597 1 3552 598 1 3558 599 1 3564 600 1 3570 601 1 3576 602 1 3582 603 1 3588 604 1 3594 605 1 3600 606 1 3606 607 1 3612 608 1 3618 609 1 3624 610 1 3630 611 1 3636 612 1 3642 613 1 3648 614 1 3654 615 1 3660 616 1 3666 617 1 3672 618 1 3678 619 1 3684 620 1 3690 621 1 3696 622 1 3702 623 1 3708 624 1 3714 625 1 3720 626 1 3726 627 1 3732 628 1 3738 629 1 3744 630 1 3750 631 1 3756 632 1 3762 633 1 3768 634 1 3774 635 1 3780 636 1 3786 637 1 3792 638 1 3798 639 1 3804 640 1 3810 641 1 3816 642 1 3822 643 1 3828 644 1 3834 645 1 3840 646 1 3846 647 1 3852 648 1 3858 649 1 3864 650 1 3870 651 1 3876 652 1 3882 653 1 3888 654 1 3894 655 1 3900 656 1 3906 657 1 3912 658 1 3918 659 1 3924 660 1 3930 661 1 3936 662 1 3942 663 1 3948 664 1 3954 665 1 3960 666 1 3966 667 1 3972 668 1 3978 669 1 3984 670 1 3990 671 1 3996 672 1 4000 673 1 4006 674 1 4012 675 1 4018 676 1 4024 677 1 4030 678 1 4036 679 1 4042 680 1 4048 681 1 4054 682 1 4060 683 1 4066 684 1 4072 685 1 4078 686 1 4084 687 1 4090 688 1 4096 689 1 4102 690 1 4108 691 1 4114 692 1 4120 693 1 4126 694 1 4132 695 1 4138 696 1 4144 697 1 4150 698 1 4156 699 1 4162 700 1 4168 701 1 4174 702 1 4180 703 1 4186 704 1 4192 705 1 4198 706 1 4204 707 1 4210 708 1 4216 709 1 4222 710 1 4228 711 1 4234 712 1 4240 713 1 4246 714 1 4252 715 1 4258 716 1 4264 717 1 4270 718 1 4276 719 1 4282 720 1 4288 721 1 4294 722 1 4300 723 1 4306 724 1 4312 725 1 4318 726 1 4324 727 1 4330 728 1 4336 729 1 4342 730 1 4348 731 1 4354 732 1 4360 733 1 4366 734 1 4372 735 1 4378 736 1 4384 737 1 4390 738 1 4396 739 1 4402 740 1 4408 741 1 4414 742 1 4420 743 1 4426 744 1 4432 745 1 4438 746 1 4444 747 1 4450 748 1 4456 749 1 4462 750 1 4468 751 1 4474 752 1 4480 753 1 4486 754 1 4492 755 1 4498 756 1 4504 757 1 4510 758 1 4516 759 1 4522 760 1 4528 761 1 4534 762 1 4540 763 1 4546 764 1 4552 765 1 4558 766 1 4564 767 1 4570 768 1 4576 769 1 4582 770 1 4588 771 1 4594 772 1 4600 773 1 4606 774 1 4612 775 1 4618 776 1 4624 777 1 4630 778 1 4636 779 1 4642 780 1 4648 781 1 4654 782 1 4660 783 1 4666 784 1 4672 785 1 4678 786 1 4684 787 1 4690 788 1 4696 789 1 4702 790 1 4708 791 1 4714 792 1 4720 793 1 4726 794 1 4732 795 1 4738 796 1 4744 797 1 4750 798 1 4756 799 1 4762 800 1 4768 801 1 4774 802 1 4780 803 1 4786 804 1 4792 805 1 4798 806 1 4804 807 1 4810 808 1 4816 809 1 4822 810 1 4828 811 1 4834 812 1 4840 813 1 4846 814 1 4852 815 1 4858 816 1 4864 817 1 4870 818 1 4876 819 1 4882 820 1 4888 821 1 4894 822 1 4900 823 1 4906 824 1 4912 825 1 4918 826 1 4924 827 1 4930 828 1 4936 829 1 4942 830 1 4948 831 1 4954 832 1 4960 833 1 4966 834 1 4972 835 1 4978 836 1 4984 837 1 4990 838 1 4996 839 1 5000 840 1 5006 841 1 5012 842 1 5018 843 1 5024 844 1 5030 845 1 5036 846 1 5042 847 1 5048 848 1 5054 849 1 5060 850 1 5066 851 1 5072 852 1 5078 853 1 5084 854 1 5090 855 1 5096 856 1 5102 857 1 5108 858 1 5114 859 1 5120 860 1 5126 861 1 5132 862 1 5138 863 1 5144 864 1 5150 865 1 5156 866 1 5162 867 1 5168 868 1 5174 869 1 5180 870 1 5186 871 1 5192 872 1 5198 873 1 5204 874 1 5210 875 1 5216 876 1 5222 877 1 5228 878 1 5234 879 1 5240 880 1 5246 881 1 5252 882 1 5258 883 1 5264 884 1 5270 885 1 5276 886 1 5282 887 1 5288 888 1 5294 889 1 5300 890 1 5306 891 1 5312 892 1 5318 893 1 5324 894 1 5330 895 1 5336 896 1 5342 897 1 5348 898 1 5354 899 1 5360 900 1 5366 901 1 5372 902 1 5378 903 1 5384 904 1 5390 905 1 5396 906 1 5402 907 1 5408 908 1 5414 909 1 5420 910 1 5426 911 1 5432 912 1 5438 913 1 5444 914 1 5450 915 1 5456 916 1 5462 917 1 5468 918 1 5474 919 1 5480 920 1 5486 921 1 5492 922 1 5498 923 1 5504 924 1 5510 925 1 5516 926 1 5522 927 1 5528 928 1 5534 929 1 5540 930 1 5546 931 1 5552 932 1 5558 933 1 5564 934 1 5570 935 1 5576 936 1 5582 937 1 5588 938 1 5594 939 1 5600 940 1 5606 941 1 5612 942 1 5618 943 1 5624 944 1 5630 945 1 5636 946 1 5642 947 1 5648 948 1 5654 949 1 5660 950 1 5666 951 1 5672 952 1 5678 953 1 5684 954 1 5690 955 1 5696 956 1 5702 957 1 5708 958 1 5714 959 1 5720 960 1 5726 961 1 5732 962 1 5738 963 1 5744 964 1 5750 965 1 5756 966 1 5762 967 1 5768 968 1 5774 969 1 5780 970 1 5786 971 1 5792 972 1 5798 973 1 5804 974 1 5810 975 1 5816 976 1 5822 977 1 5828 978 1 5834 979 1 5840 980 1 5846 981 1 5852 982 1 5858 983 1 5864 984 1 5870 985 1 5876 986 1 5882 987 1 5888 988 1 5894 989 1 5900 990 1 5906 991 1 5912 992 1 5918 993 1 5924 994 1 5930 995 1 5936 996 1 5942 997 1 5948 998 1 5954 999 1 5960 1000 1 5966 1001 1 5972 1002 1 5978 1003 1 5984 1004 1 5990 1005 1 5996 1006 1 6000 1007 1 6006 1008 1 6012 1009 1 6018 1010 1 6024 1011 1 6030 1012 1 6036 1013 1 6042 1014 1 6048 1015 1 6054 1016 1 6060 1017 1 6066 1018 1 6072 1019 1 6078 1020 1 6084 1021 1 6090 1022 1 6096 1023 1 6102 1024 1 6108 1025 1 6114 1026 1 6120 1027 1 6126 1028 1 6132 1029 1 6138 1030 1 6144 1031 1 6150 1032 1 6156 1033 1 6162 1034 1 6168 1035 1 6174 1036 1 6180 1037 1 6186 1038 1 6192 1039 1 6198 1040 1 6204 1041 1 6210 1042 1 6216 1043 1 6222 1044 1 6228 1045 1 6234 1046 1 6240 1047 1 6246 1048 1 6252 1049 1 6258 1050 1 6264 1051 1 6270 1052 1 6276 1053 1 6282 1054 1 6288 1055 1 6294 1056 1 6300 1057 1 6306 1058 1 6312 1059 1 6318 1060 1 6324 1061 1 6330 1062 1 6336 1063 1 6342 1064 1 6348 1065 1 6354 1066 1 6360 1067 1 6366 1068 1 6372 1069 1 6378 1070 1 6384 1071 1 6390 1072 1 6396 1073 1 6402 1074 1 6408 1075 1 6414 1076 1 6420 1077 1 6426 1078 1 6432 1079 1 6438 1080 1 6444 1081 1 6450 1082 1 6456 1083 1 6462 1084 1 6468 1085 1 6474 1086 1 6480 1087 1 6486 1088 1 6492 1089 1 6498 1090 1 6504 1091 1 6510 1092 1 6516 1093 1 6522 1094 1 6528 1095 1 6534 1096 1 6540 1097 1 6546 1098 1 6552 1099 1 6558 1100 1 6564 1101 1 6570 1102 1 6576 1103 1 6582 1104 1 6588 1105 1 6594 1106 1 6600 1107 1 6606 1108 1 6612 1109 1 6618 1110 1 6624 1111 1 6630 1112 1 6636 1113 1 6642 1114 1 6648 1115 1 6654 1116 1 6660 1117 1 6666 1118 1 6672 1119 1 6678 1120 1 6684 1121 1 6690 1122 1 6696 1123 1 6702 1124 1 6708 1125 1 6714 1126 1 6720 1127 1 6726 1128 1 6732 1129 1 6738 1130 1 6744 1131 1 6750 1132 1 6756 1133 1 6762 1134 1 6768 1135 1 6774

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

Page 936/100

1. Owner Pennsylvania Power and Light Co. Date September 26, 1986
Name
Two North Ninth St., Allentown, PA 18101
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name
Berwick, PA 18603 Unit II
Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System 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

CWO's C-55877 & C-55878/PMR 85-3019
 Repair Organization P.O. No., Job No., etc.

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| 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 ☒ 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 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Signed Ja. 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 Mfgs. 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
 Inspector's Signature

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

Date Nov. 20, 19 86

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. Date 10/14/86
Name
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
Address
2. Plant Susquehanna Steam Electric Station Unit 11
Name
P.O. Box 467, Berwick, PA WA #V63906
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Type Code Symbol Stamp None
Name
Two North Ninth St., Allentown, PA Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Main Steam: 2837A
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 1980 Through Winter 1981 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|----------------------|-------------------------|--------------------|----------------------|------------|------------------------------------|-------------------------------|
| Snubber Rear Bracket | ITT GRINNELL | 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 psf Test Temp. °F

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

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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 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 Ja. 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 Mfgs. 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 NB7920 PA2204 NIBS IS
National Board, State, Province, and Endorsements

Date Nov. 20 19 86

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. Date 12-4-84
Name
Two N. Ninth St., Allentown, PA.
Address
 2. Plant Susquehanna Steam Electric Station Sheet 1 of 1
Name Unit Unit #2
Berwick, PA. PMO/WIP-1007-01/DCP84-1007
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by Pennsylvania Power & Light Type Code Symbol Stamp None
Name Authorization No. N/A
Two N. Ninth St., Allentown, PA. Expiration Date N/A
Address
 4. Identification of System Inside Containment Main Steam (System 283D Class 3)

5. (a) Applicable Construction Code ASME III 1971 Edition, Thru W72 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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 | 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 Keene

Date

12-5

1984

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 MEGRS 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

Inspector's Signature

Commissions PA 2204 NB 7980 NIBS

National Board, State, Province, and Endorsements

Date DEC. 6

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 99 of 100

1. Owner Pennsylvania Power & Light Co. (PP&L) Date 10/1/86
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1
 Address
2. Plant Susquehanna Steam Electric Station Unit II
P.O. Box 467, Berwick, PA 18603 CWO's C66627 & C66628/PMR 86-9060
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A
 Address Expiration Date N/A
4. Identification of System Auto Pressure Blowdown System, SUS 283E-III
5. (a) Applicable Construction Code Section III, 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 8 1/2 in. x 11 in.; (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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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 <u>Replaced & Replacement</u> conforms to the rules of the ASME Code, Section XI. <u>repair or replacement</u> | |
| Type Code Symbol Stamp | <u>None</u> |
| Certificate of Authorization No. <u>N/A</u> | Expiration Date <u>N/A</u> |
| Signed <u>J. A. Blokeslee Jr.</u> Date <u>November 12</u> , 19 <u>86</u>
Owner or Owner's Designee, Title <u>Superintendent of Plant</u> | |

| CERTIFICATE OF INSERVICE INSPECTION | |
|---|--|
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>Arkwright Boston Mfgs. Mutual Ins. Co.</u> of <u>Waltham, MA</u> have inspected the components described in this Owner's Report during the period <u>SEP. 26, 1986</u> to <u>OCT. 2, 1986</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in 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 | |
| <u>William R. Rogers III</u>
Inspector's Signature | Commissions <u>NB7980 PA2204</u> <u>NIBS IS</u>
National Board, State, Province, and Endorsements |
| Date <u>Nov. 20</u> 19 <u>86</u> | |