

# APPENDIX D.2

## MODIFICATION GROUP NIS-2 FORMS

### WORK ABSTRACT

The Site Modifications Group is responsible for preparing Work Orders (work packages) for fabrication and installation of design changes in accordance with ASME Section XI and the National Board Inspection Code. This work is documented on NIS-2 Forms, or on R-1 Forms, which are submitted herewith.

### MODIFICATION INSTALLATION GROUP

Design Change Packages for ASME Section XI ( Class 1, 2 and 3 ), and the National Board Inspection Code, installed in Unit 1 since the completion of the Eleventh Refueling Outage through completion of the Twelfth Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM / CLASS	DESCRIPTION
97-9100D, F and G	024A III	Replaced Fuel Oil Day Tank level transmitters
179458	145A I	Permanent Removal of Snubber Supports SPDBA103-H2000 and SPDBA107-H2000
310917 *	147	Welded repairs to nozzle base metal damage on replacement Feedwater Heaters
94-3023B and C	149A III	Replacement and Repair of RHR Motor Oil Coolers
179459	149C I	Permanent Removal of Snubber Support SPDCA117-H14
352940	151A II	Relocation of Instrument Rack 1C057
318280	153A II	Replace SBLC Pump Discharge Flange and Re-rate SBLC Pump and Discharge Piping,
224005	161B III	Replace RWCU Pump Proximity Probes with Pipe Plugs.
316329, 316330, 316331, 316332	162A I	Modified inboard MSIVs, HV141F022A, B, C, and D to improve seating characteristics.
179460	162A II	Permanent Removal of Snubber Supports SPDCB112-H2003 and SPDCB112-H2014
179459	164A I	Permanent Removal of Snubber Support SPDCA120-H2006
179459	164A II	Permanent Removal of Snubber Support SPDCB112-H2094
179459 391402 391467	164D II	Permanent removal of snubber support SPDCB106-H2002 and Replaced piping SPDCB106-6, SPDCB106-8, and SPDCB121-4, do to socket weld UT Exam failures.

316333, 316334,  
316335, 316336

183A I

Modified outboard MSIVs, HV141F028A, B, C, and D  
to improve seating characteristics.

\* National Board Inspection Code repair of an ASME Section VIII vessel in a non-nuclear system.

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

1. Owner PPL Susquehanna, LLC Date 5-JUNE-2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address SEE PAGE 4 AND 5  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System DIESEL GENERATOR and AUXILIARY SYSTEM 024A-III
5. (a) Applicable Construction Code SEE PAGE 4 & 5 19      Edition,      Addenda,      Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	BECHTEL	N/A	N/A	SPHBC94-1	1982	REPLACED	YES
(2) SMALL PIPE ASSEMBLY	PPL	N/A	N/A	SPHBC94-1	2000	REPLACEMENT	NO
(3) 1" PLUG VALVE	TUFLINE XOMOX	89267L-3	N/A	034072B	1979	REPLACED	YES
(4) 1" PLUG VALVE	TUFLINE XOMOX	89267L-5	N/A	034073B	1979	REPLACED	YES
(5) 1" BALL VALVE	BNL INDUSTRIES	A981004-1-2	N/A	034073B	1999	REPLACEMENT	YES
(6) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBC94-H2000	1982	REPLACED	NO

7. Description of Work SEE PAGE 4 AND 5
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
Other ☐ Pressure N/A psi Test Temp. N/A °F

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



FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date JUNE 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 2-16-99 to 2-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 P. Rogers III Commissions NB 7980 A.N.I.B.N.S. PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

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

1. Owner PPL Susquehanna, LLC Date 5-JUNE-2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 2  
Address Add
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE PAGE 4 AND 5  
Address Addre Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATOR and AUXILIARY SYSTEM 024A-III
5. (a) Applicable Construction Code SEE PAGE 4 & 5 19      Edition,      Addenda,      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBC94-H2001	1982	REPLACED	NO
(8) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPHBC96-1	1982	REPLACED	YES
(9) SMALL PIPE ASSEMBLY	PPL	N/A	N/A	SPHBC96-1	2000	REPLACEMENT	NO
(10) 1" PLUG VALVE	TUFLINE XOMOX	89267L-1	N/A	034072D	1979	REPLACED	YES
(11) 1" PLUG VALVE	TUFLINE XOMOX	89267L-7	N/A	034073D	1979	REPLACED	YES
(12) 1" BALL VALVE	BNL INDUSTRIES	A981004-1-4	N/A	034073D	1999	REPLACEMENT	YES
(13) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBC96-H2000	1982	REPLACED	NO
(14) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBC96-H2001	1982	REPLACED	NO
(15) LEVEL TRANSMITTER PIPE ASSEMBLY	MORRISON KNUDSEN	SA-613	N/A	SA-613	1985	REPLACED	YES

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

1. Owner PPL Susquehanna, LLC Date 5-JUNE-2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 3 of 3  
Address Add
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE PAGE 4 AND 5  
Address Addre Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATOR and AUXILIARY SYSTEM 024A-III
5. (a) Applicable Construction Code SEE PAGE 4 & 5 19      Edition,      Addenda,      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(16) BLIND FLANGE	PPL	N/A	N/A	SA-613	2000	REPLACEMENT	NO
(17) SMALL PIPE ASSEMBLY	PPL	N/A	N/A	SPHBC3304-14	2000	REPLACEMENT	NO
(18) 1" BALL VALVE	BNL INDUSTRIES	A990801-2-2	N/A	034829E	2000	REPLACEMENT	YES
(19) PIPE PLUG NOZZLE H	APPLIED ENGINEERING	NC-4164-05	2742	OT-528E	1984	REPLACED	NO

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

1. Owner PPL Susquehanna, LLC Date 5-JUNE-2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 4 of 4  
Address Add
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE PAGE 4 AND 5  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATOR and AUXILIARY SYSTEM 024A-III
5. (a) Applicable Construction Code SEE PAGE 4 & 5 19      Edition,      Addenda,      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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ITEM	WORK ORDER / JOB NUMBER	CONSTRUCTION CODE	DESCRIPTION OF WORK
1 - 2	PCWO 99998 / DCP 97-9100D CRF G99-023-010	ASME SECTION III 1971 EDITION, WINTER 72 ADD.	REPLACEMENT OF BRAVO DIESEL DAY TANK LEVEL TRANSMITTER PIPING
3 - 4	PCWO 99998 / DCP 97-9100D CRF G99-023-010	ASME SECTION III 1977 EDITION, SUMMER 78 ADD.	BRAVO DIESEL DAY TANK LEVEL TRANSMITTER ISOLATION VALVE REPLACED AND DELETED DRAIN VALVE
5	PCWO 99998 / DCP 97-9100D CRF G99-023-010	ASME SECTION III 1974 EDITION, NO ADDENDA.	BRAVO DIESEL DAY TANK LEVEL TRANSMITTER REPLACEMENT ISOLATION VALVE
6 - 7	PCWO 99998 / DCP 97-9100D CRF G99-023-015	ASME SECTION III 1971 EDITION, WINTER 72 ADD.	BRAVO DIESEL DAY TANK LEVEL TRANSMITTER DELETED PIPE SUPPORTS
8 - 9	PCWO 100221 / DCP 97-9100F CRF G99-024-012	ASME SECTION III 1971 EDITION, WINTER 72 ADD.	REPLACEMENT OF DELTA DIESEL DAY TANK LEVEL TRANSMITTER PIPING
10 - 11	PCWO 100221 / DCP 97-9100F CRF G99-024-012	ASME SECTION III 1977 EDITION, SUMMER 78 ADD.	DELTA DIESEL DAY TANK LEVEL TRANSMITTER ISOLATION VALVE REPLACED AND DELETED DRAIN VALVE

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

1. Owner PPL Susquehanna, LLC Date 5-JUNE-2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 5 of 5  
Address Add

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE PAGE 4 AND 5  
Address Addre Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System DIESEL GENERATOR and AUXILIARY SYSTEM 024A-III

5. (a) Applicable Construction Code SEE PAGE 4 & 5 19      Edition,      Addenda,      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
12	PCWO 100221 / DCP 97-9100F CRF G99-024-012		ASME SECTION III 1974 EDITION, NO ADDENDA.			DELTA DIESEL DAY TANK LEVEL TRANSMITTER REPLACEMENT ISOLATION VALVE	
13 - 14	PCWO 100221 / DCP 97-9100F CRF G99-024-017		ASME SECTION III 1971 EDITION, WINTER 72 ADD.			DELTA DIESEL DAY TANK LEVEL TRANSMITTER DELETED PIPE SUPPORTS	
15 - 16	PCWO 100222 / DCP 97-9100G CRF G99-023-013		ASME SECTION III 1980 EDITION, SUMMER 81 ADD CODE CASE N-316.			ECHO DIESEL DAY TANK LEVEL TRANSMITTER REPLACEMENT OF EXISTING WITH BLIND FLANGE	
17	PCWO 100222 / DCP 97-9100G CRF G99-023-013		ASME SECTION III 1971 EDITION, WINTER 72 ADD			ECHO DIESEL DAY TANK NEW LEVEL TRANSMITTER SMALL BORE PIPE INSTALLATION	
18	PCWO 100222 / DCP 97-9100G CRF G99-023-013		ASME SECTION III 1974 EDITION, NO ADDENDA			ECHO DIESEL DAY TANK LEVEL TRANSMITTER NEW ISOLATION VALVE	
19	PCWO 100222 / DCP 97-9100G CRF G99-023-013		ASME SECTION III 1980 EDITION, SUMMER 81 ADD			ECHO DIESEL DAY TANK LEVEL TRANSMITTER RELOCATION TO TANK SPARE NOZZLE LOCATION H.	



FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. A981004-1-(1THRU4)

ANSI 600#

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_ (1)  
(pressure) (temperature)

9. Cold working pressure 10 psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi

11. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E  
Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N-2882 Expires 11/10/01

N Certificate of Authorization No. \_\_\_\_\_  
Date 06/17/99 Name BNL INDUSTRIES, INC. Signed \_\_\_\_\_  
(N Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS.  
of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on  
of 06/17/99 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4/17/99 Signed [Signature] Commissions NB 9504 AN CT 1412  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.





FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. A981004-2-(1THRU2)

ANSI 600#

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_ (1)  
(pressure) (temperature)

9. Cold working pressure 10 psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi

11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E  
 Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N-2882 Expires 11/10/01  
 N Certificate of Authorization No. \_\_\_\_\_  
 Date 06/17/99 Name BNL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS.  
 of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 06/17/99, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6/17/99 Signed [Signature] Commissions NB 8504 AN ET. 1414  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.



FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. A990801-2-(142)

ANSI 600#

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_ (1)

9. Cold working pressure \_\_\_\_\_ psi at 100°F

10. Hydrostatic test \_\_\_\_\_ psi. Disk differential test pressure \_\_\_\_\_ psi

11. Remarks: \_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by D.M. GROVES P.E. State PA Reg. no. 24926-E  
Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/01

Date 06/01/00 Name BNL INDUSTRIES, INC. Signed \_\_\_\_\_  
(N Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS.  
of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 06/01/00, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6-1-2000 Signed \_\_\_\_\_ Commissions NA 8504 ANCI 1414  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prev. and ne.)

(1) For manually operated valves only.

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

1. Owner PPL Susquehanna, LLC Date 04/25/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address ECO 179458, PCWO 344339  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System FEEDWATER SYSTEM 145A CLASS I

5. (a) Applicable Construction Code ASME Section III 19 71 Edition, Winter 72 Addenda, N-411 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBA103-H2000	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	6668	N/A	SPDBA103-H2000	1979	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBA107-H2000	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	13970	N/A	SPDBA107-H2000	1981	REPLACED	N/A

7. Description of Work REMOVE SNUBBER / NO REPLACEMENT

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

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

FORM NIS-2 (Back)

9. Remarks Applicable Construction Code: ASME III 1971 Edition thru Winter 1972 Addenda.

1" & smaller Nuclear Class I piping designed in accordance with the rules of Nuclear Class 2 piping

per ASME III, 1974 Edition, Summer 1975 Addenda, paragraph NB-3630. CODE CASE N-411

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-21-01 to 3-18-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JUNE 17 2002

**FORM R-1 REPORT OF WELDED REPAIR**  
in accordance with provisions of the National Board Inspection Code

1. Work performed by PPL Susquehanna, LLC G02-147-002, 003, 004  
(name of repair organization) (Form R No.)  
707 Salem Blvd. Berwick, PA 18603 318013, 318033, 390136  
(address) (P.O. No., Job No., etc.)

2. Owner PPL Susquehanna, LLC  
(name)  
707 Salem Blvd. Berwick, PA 18603  
(address)

3. Location of installation PPL Susquehanna, LLC  
(name)  
707 Salem Blvd. Berwick, PA 18603  
(address)

4. Unit identification Feedwater Heater Name of original manufacturer Struthers Industries, Inc.  
(boiler, pressure vessel)

5. Identifying nos.: 01-06-54356-1 6362 570250 1E103A 2002  
(mfg serial no.) (National Board No.) (jurisdiction no.) (other) (year built)

6. NBIC Edition/Addenda: 2001 2001  
(edition) (addenda)  
Original Code of Construction for Item: ASME Sec. VIII Div. 1 1998 Edition w/ 2000 Addenda  
(name/section/division) (edition/addenda)  
Construction Code Used for Repair Performed: ASME Sec. VIII Div. 1 1998 Ed. w/ 2000 Add.  
(name/section/division) (edition/addenda)

7. Repair Type: ☒ Welded ☐ Graphite Pressure Equipment ☐ FRP Pressure Equipment

8. Description of work: Welded repair of base metal damage on nozzles N2, N4, and N6.  
(use supplemental sheet, Form R-4, if necessary)

Pressure Test, if applied N/A psi MAWP 75 int. / 15 ext. psi

9. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

None

(name of part, item number, data report type, mfr's name and identifying stamp)

10. Remarks: Surface examination performed on weld preparation and final weld surfaces.

**CERTIFICATE OF COMPLIANCE**

I, Edward B. Gerlach, P.E., certify that to the best of my knowledge and belief the statements in this report are correct and that all material, construction, and workmanship on this Repair conforms to the National Board Inspection Code.

National Board "R" Certificate of Authorization No. 5449 expires on November 3, 2002

Date 3/28, 2002 PPL Susquehanna, LLC Signed Edward B. Gerlach  
(name of repair organization) (authorized representative)

**CERTIFICATE OF INSPECTION**

I, Delton E. Tillery, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Pennsylvania and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the work described in this report on 4-3, 2002 and state that to the best of my knowledge and belief this work complies with the applicable requirements of the National Board Inspection Code.

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

Date 4-3, 2002 Signed D. E. Tillery Commissions Pa 2361  
(inspector) (National Board (incl endorsements, and jurisdiction, and no))

**FORM R-1 REPORT OF WELDED REPAIR**  
in accordance with provisions of the National Board Inspection Code

1. Work performed by PPL Susquehanna, LLC G02-147-005  
(name of repair organization) (Form R No.)  
707 Salem Blvd. Berwick, PA 18603 318490  
(address) (P.O. No., Job No. etc.)

2. Owner PPL Susquehanna, LLC  
(name)  
707 Salem Blvd. Berwick, PA 18603  
(address)

3. Location of installation PPL Susquehanna, LLC  
(name)  
707 Salem Blvd. Berwick, PA 18603  
(address)

4. Unit identification Feedwater Heater Name of original manufacturer Struthers Industries, Inc.  
(boiler, pressure vessel)

5. Identifying nos.: 01-06-54356-3 6364 570252 1E103C 2002  
(mfg serial no.) (National Board No.) (jurisdiction no.) (other) (year built)

6. NBIC Edition/Addenda: 2001 2001  
(edition) (addenda)  
Original Code of Construction for Item: ASME Sec. VIII Div. 1 1998 Edition w/ 2000 Addenda  
(name/section/division) (edition/addenda)  
Construction Code Used for Repair Performed: ASME Sec. VIII Div. 1 1998 Ed. w/ 2000 Add.  
(name/section/division) (edition/addenda)

7. Repair Type: ☒ Welded ☐ Graphite Pressure Equipment ☐ FRP Pressure Equipment

8. Description of work: Welded repair of base metal damage on nozzle N1.  
(use supplemental sheet, Form R-4, if necessary)

Pressure Test, if applied N/A psi MAWP 75 int. / 15 ext. psi

9. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:  
None

(name of part, item number, data report type, mfr's name and identifying stamp)

10. Remarks: Surface examination performed on weld preparation and final weld surfaces.

**CERTIFICATE OF COMPLIANCE**

I, EDWARD B GERLAK PE., certify that to the best of my knowledge and belief the statements in this report are correct and that all material, construction, and workmanship on this Repair conforms to the National Board Inspection Code.  
National Board "R" Certificate of Authorization No. 5449 expires on November 3, 2002  
Date 3/28, 2002 PPL Susquehanna, LLC Signed Edward B. Gerlach  
(name of repair organization) (authorized representative)

**CERTIFICATE OF INSPECTION**

I, Delton E. Tillery, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Pennsylvania and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the work described in this report on 4-3, 2002 and state that to the best of my knowledge and belief this work complies with the applicable requirements of the National Board Inspection Code.  
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.  
Date 4-3, 2002 Signed D.E. Tillery Commissions Pa 2361  
(inspector) (National Board (incl endorsements), and jurisdiction, and no.)

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

1. Owner PPL Susquehanna, LLC Date 04-Jan-2001  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467 / 707 Salem Blvd., Berwick, PA 18603  
Address WO's: C60007 & C60008 DCP's: 94-3023B & C  
Service Order: 140747-C  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System 149A-III, Residual Heat Removal

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 Ed. No Ad.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 Motor Oil Cooler	General Electric	D90450-001D	N/A	1E217B	1990	Replaced	No
RHR Motor Oil Cooler	General Electric	94G620-001-05	N/A	1E217B	1994	Replacement	No
RHR Motor Oil Cooler	General Electric	D90451-001D	N/A	1E217C	1990	Replaced	No
RHR Motor Oil Cooler	General Electric	94G620-001-07	N/A	1E217C	1994	Replacement	No
RHR Motor Oil Cooler	General Electric	94G620-001-06	N/A	1E217D	2000	Repaired	No

7. Description of Work Replacement & Repair of RHR Motor Oil Coolers made of AL6XN materials.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐  
Other ☐ Pressure 300 psi Test Temp. Ambient °F

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



# FORM NIS-2 (Back)

9. Remarks Motor Oil Coolers were replaced during Unit 1, Cycle 9, and should have been included in the  
Unit I, 9<sup>th</sup> Outage Summary Report. The repair 1E217D Motor Oil was completed during the Unit I, 12<sup>th</sup> RIO,  
and should have been included in the Unit I, 12<sup>th</sup> Outage Summary Report.  
This condition is documented on Deficiency Report CR-266792.

## CERTIFICATION 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 N/A

Signed [Signature] Date Jan 9, 2001  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

## CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State  
 or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of  
JOHNSTON, RHODE ISLAND have inspected the components described  
 in this Owner's Report during the period Aug. 23<sup>rd</sup> 1996 to JAN. 9<sup>th</sup> 2001, and state that  
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN 9<sup>th</sup> 2001

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

1. Owner PPL Susquehanna, LLC Date 04/25/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address ECO 179459, PCWO 345105  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System RESIDUAL HEAT REMOVAL SYSTEM 149C CLASS I

5. (a) Applicable Construction Code Asme Section III 19 71 Edition, Winter 72 Addenda, N-411 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCA117-H14	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	13470	N/A	SPDCA117-H14	1981	REPLACED	N/A

7. Description of Work REMOVE SNUBBER / NO REPLACEMENT

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

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

FORM NIS-2 (Back)

9. Remarks Applicable Construction Code: ASME III 1971 Edition thru Winter 1972 Addenda.

1" & smaller Nuclear Class I piping designed in accordance with the rules of Nuclear Class 2 piping

per ASME III, 1974 Edition, Summer 1975 Addenda, paragraph NB-3630.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designee Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-28-01 to 3-20-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date 20

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

1. Owner PPL Susquehanna, LLC Date 06/05/2002  
Name  
769 Salem Blvd.; Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
769 Salem Blvd.; Berwick, PA 18603  
Address DCP: 352940 PCWO 357240  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd.; Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System CORE SPRAY SYSTEM, 151A -- Class II

5. (a) Applicable Construction Code ASME Section III 19 71 Edition, Winter 72 Addenda, NONE Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADD.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3/8" STAINLESS STEEL TUBING RUN	BECHTEL	N/A	N/A	JD-28-6-1A	1982	REPLACED	YES
3/8" STAINLESS STEEL TUBING RUN	PPL	N/A	N/A	JD-28-6-1A	2002	REPLACEMENT	NO
3/8" STAINLESS STEEL TUBING RUN	BECHTEL	N/A	N/A	JD-28-6-1B	1982	REPLACED	YES
3/8" STAINLESS STEEL TUBING RUN	PPL	N/A	N/A	JD-28-6-1B	2002	REPLACEMENT	NO

7. Description of Work Installation of new tubing to relocated instrument rack 1C057

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

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

FORM NIS-2 (Back)

9. Remarks NONE

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-4-02 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 P. Regus III Commissions NB7980 A, N, I, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

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

1. Owner PPL Susquehanna, LLC Date 04/30/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit 1  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
DCP 318280; PCWO 319462, 319466, 319468,  
319558, 346328  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
Authorization No. N/A  
Expiration Date N/A

4. Identification of System 153A – STANDBY LIQUID CONTROL SYSTEM CLASS II

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, See Remark Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 Code Case N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Flanges	Bechtel	N/A	N/A	SPDCB101-1	1982	REPLACED	Yes
Small Pipe Flanges	PPL	HT# C5257	N/A	SPDCB101-1	2002	REPLACEMENT	No
Spring and Spring Step	LONERGAN	VALVE S/N 510138-1-14-1	N/A	PSV148029A	1979	REPLACED	Yes
Spring and Spring Step	LONERGAN	VALVE S/N 510138-1-14-1	N/A	PSV148029A	2002	REPLACEMENT	No
Small Pipe Flanges	Bechtel	N/A	N/A	SPDCB101-2	1982	REPLACED	Yes
Small Pipe Flanges	PPL	HT# HN051	N/A	SPDCB101-2	2002	REPLACEMENT	No
Spring and Spring Step	LONERGAN	VALVE S/N 510138-1-14-2	N/A	PSV148F029B	1979	REPLACED	Yes

7. Description of Work \* SEE REMARKS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
Other ☐ Pressure 1400 psi Test Temp. 72 °F

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

FORM NIS-2 (Back)

9. Remarks Re-rated the piping (SPDCB101-1, 2, 3, 4, 5, 6, 7, 8) pumps (1P208A/B) and valves  
(PSV148F029A/B). Replace spring and step spring in PSV's. Replace the pump discharge flanges from  
600# to 1500#. Install new (re-rate nameplates) with new design pressure of 1500PSI on components.  
Piping DCB-101; Valve PSV148F029A/B. Replaced plunger in 1P208B.

Construction Code for LONERGAN: ASME Section III, 1974 Edition thru Winter 1974; Code Case N-1555

Construction Code for SLC Pumps: ASME Section III, 1968 Edition.

CERTIFICATION 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. Replacement  
repair or replacement

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 20 02  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State  
or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of  
JOHNSTON, RHODE ISLAND have inspected the components described  
in this Owner's Report during the period 9-28-01 to 3-29-02, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be 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. Regus III Commissions NB7980 A, N, I, B, NS PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 17 2002

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

1. Owner PPL Susquehanna, LLC. Date 04/30/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit 1  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address DCP 318280; PCWO 319462, 319466, 319468,  
319558, 346328  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System 153A – STANDBY LIQUID CONTROL SYSTEM CLASS II
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, See Remark Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 Code Case N416-1
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Spring and Spring Step	LONERGAN	VALVE S/N 510138-1-14-2	N/A	PSV148F029B	2002	REPLACEMENT	No
Stud Bolt/Nut	Bechtel	N/A	N/A	SPDCB101-1	1982	REPLACED	Yes
Stud Bolt/Nut	PPL	Stud Bolt HT#04617; Nut HT#HDF	N/A	SPDCB101-1	2002	REPLACEMENT	No
Stud Bolt/Nut	Bechtel	N/A	N/A	SPDCB101-2	1982	REPLACE	Yes
Stud Bolt/Nut	PPL	Stud Bolt HT#04617; Nut HT#HDF	N/A	SPDCB101-2	2002	REPLACEMENT	No
SLC Pump "A"	Union	S/N 284222	N/A	1P-208A	1973	REPLACED	Yes
SLC Pump "A"	Union	S/N 284222	N/A	1P-208A	2002	REPLACEMENT	No
SLC Pump "B"	Union	S/N 284223	N/A	1P-208B	1973	REPLACED	Yes
SLC Pump "B"	Union	S/N 284223	N/A	1P-208B	2002	REPLACEMENT	No
Piping Isometrics SPDCB101-3, 4, 5, 6, 7 and 8	Bechtel	N/A	N/A	N/A	1982	REPLACED	Yes



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

1. Owner PPL Susquehanna, LLC. Date 04/30/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit 1  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
DCP 318280; PCWO 319462, 319466, 319468,  
319558, 346328  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
Authorization No. N/A  
Expiration Date N/A
4. Identification of System 153A – STANDBY LIQUID CONTROL SYSTEM CLASS II
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, See Remark Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 Code Case N416-1
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping Isometrics SPDCB101-3, 4, 5, 6, 7 and 8	PPL	N/A	N/A	N/A	2002	REPLACEMENT	No
PLUNGER	Union	S/N 284223	N/A	1P-208B	1971	REPLACED	Yes
PLUNGER	Union	S/N 284223	N/A	1P-208B	2002	REPLACEMENT	No
SPDCB101-H37	Bechtel	N/A	N/A	SPDCB101-H37	1982	REPAIRED	No

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

1. Owner PPL Susquehanna, LLC Date 06/05/2002  
Name  
769 Salem Blvd.; Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
769 Salem Blvd.; Berwick, PA 18603  
Address PCWO 267546 & 189828  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd.; Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR WATER CLEANUP, 161B -- Class III

5. (a) Applicable Construction Code Draft ASME 19 68 Edition, Addenda, NONE Code Case  
Pump & Valve  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADD.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PROXIMITY PROBE (4 EA.)	HAYWARD TYLER	U12H91823 (PUMP MOTOR)	N/A	SPARE(PUMP)	1991	REPLACED	NO
PLUG (4 EA) - 1/2"	BONNEY	N/A	N/A	(1)--HT. # 9162 (3) - HT. # 9204	1998 1999	REPLACEMENT	NO
1/4"PROXIMITY PROBE -(2 EA.)	HAYWARD TYLER	U12H91823 (PUMP MOTOR)	N/A	SPARE (PUMP)	1991	REPLACED	NO
PLUG (2EA) - 1/4"	BONNEY		N/A	HEAT #CK43	1984	REPLACEMENT	NO

7. Description of Work REPLACED PROXIMITY PROBES WITH PIPE PLUGS ON PUMP MOTOR U12H91823

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F NONE CONDUCTED

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

FORM NIS-2 (Back)

9. Remarks

NO CODE DATA REPORTS ARE APPLICABLE TO THE PIPE PLUGS USED TO REPLACE THE  
PROXIMITY PROBES IN ACCORDANCE WITH PCWO's 189828 & 267546, AND DCP 224005

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State  
or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of  
JOHNSTON, RHODE ISLAND have inspected the components described  
in this Owner's Report during the period 9-11-00 to 4-21-02, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be 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 P. Ryan III Commissions NB 7980 A, N.E.B.N.S. PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

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

1. Owner PPL Susquehanna, LLC Date 4/25/2002  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
PCWO 345780, 345876, 345886, 345891  
DCP 316329, 316330, 316331, 316332  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
Authorization No. N/A  
Expiration Date N/A
4. Identification of System 162A, Reactor Vessel; Class 1
5. (a) Applicable Construction Code III 19 71 Edition, thru S' 71 Addenda, 1535-2 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
26" MSIV	Atwood & Morrill	1-221	NA	HV141F022A	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	1-221	NA	HV141F022A	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F022A	2001	Replacement	No
Poppet	Welding Services, Inc	245951-5	NA	HV141F022A	2001	Replacement	Yes
Bonnet Cover	Atwood & Morrill	H3391-3	NA	HV141F022A	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-5	NA	HV141F022A	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F022A	2001	Replacement	No

7. Description of Work Improve seating characteristics and maintainability of MSIVs
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ SE-100-002  
Other ☐ Pressure 1037 psi Test Temp. 147 °F

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

FORM NIS-2 (Back)

9. Remarks

Installation work performed by Continental Field Systems, Inc. under their National Board NR Program. National Board Forms NR-1 and ASME Forms N-2 are attached.

CERTIFICATION 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 N/A

Signed [Signature] Date June 26, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 2-28-02 to 6-24-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB7980 A,N,I,B,NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 28 2002

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

1. Owner PPL Susquehanna, LLC Date 4/25/2002  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
PCWO 345780, 345876, 345886, 345891  
DCP 316329, 316330, 316331, 316332  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System 162A, Reactor Vessel; Class 1
5. (a) Applicable Construction Code III 19 71 Edition, thru S' 71 Addenda, 1535-2 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
26" MSIV	Atwood & Morrill	2-221	NA	HV141F022B	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	2-221	NA	HV141F022B	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F022B	2001	Replacement	No
Poppet	Welding Services, Inc	245951-4	NA	HV141F022B	2001	Replacement	Yes
Bonnet Cover	Atwood & Morrill	H3391-5	NA	HV141F022B	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-7	NA	HV141F022B	2002	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F022B	2001	Replacement	No
26" MSIV	Atwood & Morrill	3-221	NA	HV141F022C	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	3-221	NA	HV141F022C	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F022C	2001	Replacement	No
Poppet	Welding Services, Inc	245951-8	NA	HV141F022C	2001	Replacement	Yes

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

1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>Two North Ninth St., Allentown, PA 18101</u> <small>Address</small>	Date <u>4/25/2002</u> Sheet <u>3</u> of <u>3</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>One</u> <u>PCWO 345780, 345876, 345886, 345891</u> <u>DCP 316329, 316330, 316331, 316332</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>Two North Ninth St., Allentown, PA 18101</u> <small>Address</small>	Type Code Symbol Stamp <u>None</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
4. Identification of System <u>162A, Reactor Vessel; Class 1</u>	
5. (a) Applicable Construction Code <u>III</u> 19 <u>71</u> Edition, <u>thru S' 71</u> Addenda, <u>1535-2</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u>	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Bonnet Cover	Atwood & Morrill	H3391-8	NA	HV141F022C	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-8	NA	HV141F022C	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F022C	2001	Replacement	No
26" MSIV	Atwood & Morrill	4-221	NA	HV141F022D	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	4-221	NA	HV141F022D	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F022D	2001	Replacement	No
Poppet	Welding Services, Inc	245951-9	NA	HV141F022D	2001	Replacement	Yes
Bonnet Cover	Atwood & Morrill	H3391-9	NA	HV141F022D	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-9	NA	HV141F022D	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F022D	2001	Replacement	No

FORM NR-1 REPORT OF REPAIR ☒ MODIFICATION ☐ OR REPLACEMENT ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)  
23 Westgate Blvd. Savannah, GA 31405  
(address)

2. Owner PPL LLC  
(name)  
2 North Ninth Street, Allentown, PA 18101  
(address)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA Salem Twp, PA

4. System 1-62A HV141F022A Main Steam

5. a: Items Which Required Repair, Modification, or Replacement Activities See Attached

Identification								Construction Code			Activity	
No	Type of Item	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class	Repair/Mod/Replace
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

5. b: Items Installed During Replacement Activities See Attached

Identification								Construction Code			
Type of Item	Installed or Replaced 5a Item No.	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 S 71 N/A  
(edition) (addenda) (Code Cases(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_



11. Description of work: See Attached  
(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See Attached

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18 2002 Signed David McCathie Quality Control Manager  
(authorized representative) (title)

#### CERTIFICATE OF INSPECTION

I, William R. Rogers III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON R.I. have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUN 24 2002 Signed William R. Rogers III Commissions NB7980AN, J.R.N.S. P42204  
(inspector) (National Board (incl. endorsements), jurisdiction, and no.)

# Form NR-1 Attachment

# Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022A**

Items Which Required Repair, Modification, or Replacement Activities

Identification								Construction Code				
No	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	1-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	WSI	5	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	3	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	5	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022A**

- |   |                   |                        |                       |
|---|-------------------|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection:              | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:    | 1971<br>(edition) | Summer 71<br>(addenda) | 1<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted      N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: (3) appendages were attached to the poppet to facilitate installation of the re-designed poppet.

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Welding Services, Inc. 2225 Skyland Court, Norcross GA, 30071  
(name and address of NPT Certificate Holder)
2. Manufactured for Atwood & Morrill Co. 285 Canal Street. Salem, MA 01970  
(name and address of Purchaser)
3. Location of installation PPL Susquehanna Nuclear Power Plant. Berwick, PA. 18603  
(name and address)
4. Type: A & M Dwg D-32467-622 R/7 SA 105 Gr.II 70.0 Ksi N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S 1971 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: 21" MSIV Valve Poppet SA 105 Gr.II with SFA 5.13 Alloy 21 Stellite 21 Hardsurfacing. Heat # 245951 for SA 105 Gr. II  
Heat #s 00-21-01, 00-21-05, 00-21-06, 101001836, 01-0876 and 1210-NO832R125 for Stellite 21

8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) 21" Nom. OD Length overall (ft & in.) 31"
9. When applicable, Certificate Holder's Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 245951-1		(26)	
(2) 245951-2		(27)	
(3) 245951-4		(28)	
(4) 245951-5		(29)	
(5) 245951-7		(30)	
(6) 245951-8		(31)	
(7) 245951-9		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.  
Reprint (7/91)

## FORM N-2 (Back - Page 2 of 2 )

Certificate Holder's Serial Nos. Ht # 245951 through 1,2,4,5,7,8,9

## CERTIFICATION OF DESIGN

Design Specifications certified by	<u>Boyd P. Brooks</u>	P.E. State	<u>CA</u>	Reg. No.	<u>13655</u>
	(when applicable)				
Design Report* certified by	<u>Herbert Cook</u>	P.E. State	<u>MA</u>	Reg. No.	<u>10981</u>
	(when applicable)				

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) conform(s) to the rules for construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2873

21" MSIV Valve PoppetsExpires November 13, 2004Date 12-10-01 Name Welding Services Inc.  
(NPT Certificate Holder)Signed [Signature] LUIS YEPEZ  
(authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected these items described in this Data Report on December 10, 2001 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-10-01 Signed [Signature]

(Authorized Nuclear Inspector)

Commissions NB # 11465 ABN, GA # 393  
[Nat'l. Bd. (incl. Endorsements) and state or prov. and no.]

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 81,600 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 3 Cover A&M P/N 32162-409-2974-000\_QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 1	N/A
(2) HT: H3391 S/N 2	N/A
(3) HT: H3391 S/N 3	N/A
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 1 through S/N 3

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New YorkAnd employed by H.S.B.I & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/14/01, and state that to the

Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/14/01 Signed [Signature]  
(authorized inspector)

Commissions NY5070 A.N.  
[Nat'l Bd. (incl. Endorsements) and state or prov. and no.]

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
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(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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



## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.  
of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III, Division 1. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

Date 12/17/01 Signed Anthony Cook Commissions NY5070 A.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

REPAIRED BY	CONTINENTAL FIELD SYSTEMS, INC. SAVANNAH, GEORGIA
DATE REPAIRED	
DATE REPAIRED	
DATE REPAIRED	
NATIONAL BOARD CERTIFICATE NUMBER	1258

FORM NR-1 REPORT OF REPAIR ☒ MODIFICATION ☐ OR REPLACEMENT ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)  
23 Westgate Blvd. Savannah, GA 31405  
(address)

2. Owner PPL LLC  
(name)  
2 North Ninth Street, Allentown, PA 18101  
(address)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA Salem Twp, PA

4. System 1-62A HV141FO22B Main Steam

5. a: Items Which Required Repair, Modification, or Replacement Activities See Attached

Identification								Construction Code			Activity	
No	Type of Item	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class	Repair/Mod/Replace
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

5. b: Items Installed During Replacement Activities See Attached

Identification								Construction Code			
Type of Item	Installed or Replaced 5a Item No.	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 S 71 N/A  
(edition) (addenda) (Code Cases(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_

11. Description of work: See Attached  
(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See Attached Manufacturer's Data Report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18, 2002 Signed David McCathie <sup>(name)</sup> Quality Control Manager <sub>(authorized representative)</sub> <sub>(title)</sub>

#### CERTIFICATE OF INSPECTION

I, WILLIAM E. ROGERS III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON RI have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24, 2002 Signed William E. Rogers III <sub>(inspector)</sub> Commissions NB7980A, NIB, NS PA 2204 <sub>(National Board (incl. endorsements), jurisdiction, and no.)</sub>

# Form NR-1 Attachment

# Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022B**

Items Which Required Repair, Modification, or Replacement Activities

Identification								Construction Code				
No	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	2-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	WSI	4	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	5	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	7	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022B**

- |   |                   |                        |                       |
|---|-------------------|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection:              | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:    | 1971<br>(edition) | Summer 71<br>(addenda) | 1<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted      N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: (3) appendages were attached to the poppet to facilitate installation of the re-designed poppet.

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Welding Services, Inc. 2225 Skyland Court, Norcross GA, 30071  
(name and address of NPT Certificate Holder)
2. Manufactured for Atwood & Morrill Co. 285 Canal Street, Salem, MA 01970  
(name and address of Purchaser)
3. Location of installation PPL Susquehanna Nuclear Power Plant, Berwick, PA. 18603  
(name and address)
4. Type: A & M Dwg D-32467-622 R/7 SA 105 Gr.II 70.0 Ksi N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S 1971 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: 21" MSIV Valve Poppet SA 105 Gr.II with SFA 5.13 Alloy 21 Stellite 21 Hardsurfacing. Heat # 245951 for SA 105 Gr. II  
Heat #s 00-21-01, 00-21-05, 00-21-06, 101001836, 01-0876 and 1210-NO832R125 for Stellite 21

8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) 21" Nom. OD Length overall (ft & in.) 31"

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 245951-1		(26)	
(2) 245951-2		(27)	
(3) 245951-4		(28)	
(4) 245951-5		(29)	
(5) 245951-7		(30)	
(6) 245951-8		(31)	
(7) 245951-9		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.  
Reprint (7/91)

## FORM N-2 (Back - Page 2 of 2 )

Certificate Holder's Serial Nos. HI # 245951 through 1,2,4,5,7,8,9

## CERTIFICATION OF DESIGN

Design Specifications certified by Boyd P. Brooks P.E. State CA Reg. No. 13655  
(when applicable)

Design Report\* certified by Herbert Cook P.E. State MA Reg. No. 10981  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these)  
conform(s) to the rules for construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2873

21" MSIV Valve PoppetsExpires November 13, 2004

Date 12-10-01 Name Welding Services Inc.  
(NPT Certificate Holder)

Signed [Signature] LOIS YEPEZ  
(authorized representative)

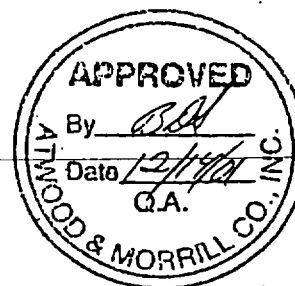
## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
Georgia and employed by The Hartford Steam Boiler Inspection and Insurance Co.  
of Hartford, CT have inspected these items described in this Data Report on December 10, 2001 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Code, Section III,  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-10-01 Signed [Signature]  
(Authorized Nuclear Inspector)

Commissions NB # 11465 ABN, GA # 393  
(Nat'l. Bd. (incl. Endorsements) and state or prov. and no.)





**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 77,900 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 3 Cover A&M P/N 32162-409-2974-000\_QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 4	N/A
(2) HT: H3391 S/N 5	N/A
(3) HT: H3391 S/N 6	N/A
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
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(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 4 through S/N 6

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N2607 Expires 6-13-04Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I. & I. Co.of Hartford, CT have inspected these items described in this Data Report on 12/14/01, and state that to the

best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/14/01 Signed [Signature] Commissions NY5070 A.N.  
(authorized inspector) [Nat'l Bd. (incl. Endorsements) and state or prov. and no.]

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2002  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 1 Pilot Poppet A&M P/N 32462-613-4226-121\_QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 7	N/A
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
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(17)	
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(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
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(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 7 through N/A

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04


Date 2/20/02 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by HSBCT  
 of Hartford, CT have inspected these items described in this Data Report on 2/20/02, and state that to the  
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
 Division 1. Each part listed has been authorized for stamping on the date shown above.  
 signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
 loss of any kind arising from or connected with this inspection.

Date 2/20/02 Signed Anthony C. Cole Commissions NY5070 A.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

REPAIRED BY  **CONTINENTAL**  
FIELD SYSTEMS, INC.  
SAVANNAH, GEORGIA

DATE REPAIRED \_\_\_\_\_

DATE REPAIRED \_\_\_\_\_

DATE REPAIRED \_\_\_\_\_

NATIONAL BOARD  
CERTIFICATION NUMBER

FORM NR-1    REPORT OF REPAIR ☒    MODIFICATION ☐    OR REPLACEMENT ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)

23 Westgate Blvd. Savannah, GA 31405  
(address)

2. Owner PPL LLC  
(name)

2 North Ninth Street, Allentown, PA 18101  
(address)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA Salem Twp., PA

4. System	1-62A	HV141F022C	MainSteam
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5. a: Items Which Required Repair, Modification, or Replacement Activities	See Attached
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[illegible]

5. b: Items Installed During Replacement Activities See Attached

[illegible]

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 S-71 N/A  
(edition) (addenda) (Code Cases(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_

11. Description of work: See Attached

(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See Attached Manufacturer's Data Report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18 2002 Signed Dan O. McCathie Quality Control Manager  
(authorized representative) (title)

#### CERTIFICATE OF INSPECTION

I, WILLIAM R. ROGER III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON RI have inspected the repair, modification or replacement described in this report on 4.1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24, 2002 Signed William R. Roger III Commissions NB7980A, N.I.B.NS PA2304  
(inspector) (National Board (incl. endorsements), jurisdiction, and no.)

# Form NR-1 Attachment

# Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022C**

Items Which Required Repair, Modification, or Replacement Activities

Identification								Construction Code				
No	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	3-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	WSI	8	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	8	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	8	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I



## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022C**

- |  |                  |           |                |
|--|------------------|-----------|----------------|
| 6. ASME Code Section XI applicable for inservice inspection:   | 1989             | N/A       | N/A            |
|  | (edition)        | (addenda) | (Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements:  | 1989             | N/A       | N/A            |
|  | (edition)        | (addenda) | (Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:   | 1971             | Summer 71 | I              |
|  | (edition)        | (addenda) | Code Case      |
| 9. Design Responsibilities:  | Atwood & Morrill |           |                |
| 10. Test Conducted   | N/A              |           |                |
| 11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement. |                  |           |                |
| 12. Remarks: (3) appendages were attached to the poppet to facilitate installation of the re-designed poppet.  |                  |           |                |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Welding Services, Inc. 2225 Skyland Court, Norcross GA, 30071  
(name and address of NPT Certificate Holder)
2. Manufactured for Atwood & Morrill Co. 285 Canal Street. Salem, MA 01970  
(name and address of Purchaser)
3. Location of installation PPL Susquehanna Nuclear Power Plant. Berwick, PA. 18603  
(name and address)
4. Type: A & M Dwg D-32467-622 R/7 SA 105 Gr.II 70.0 Ksi N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S 1971 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: 21" MSIV Valve Poppet SA 105 Gr.II with SFA 5.13 Alloy 21 Stellite 21 Hardsurfacing. Heat # 245951 for SA 105 Gr. II  
Heat #s 00-21-01, 00-21-05, 00-21-06, 101001836, 01-0876 and 1210-NO832R125 for Stellite 21

8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) 21" Nom. OD Length overall (ft & in.) 31"

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 245951-1		(26)	
(2) 245951-2		(27)	
(3) 245951-4		(28)	
(4) 245951-5		(29)	
(5) 245951-7		(30)	
(6) 245951-8		(31)	
(7) 245951-9		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300  
Reprint (7/91)

## FORM N-2 (Back - Page 2 of 2 )

Certificate Holder's Serial Nos. HI # 245951 through 1,2,4,5,7,8,9

## CERTIFICATION OF DESIGN

Design Specifications certified by Boyd P. Brooks P.E. State CA Reg. No. 13655  
(when applicable)

Design Report\* certified by Herbert Cook P.E. State MA Reg. No. 10981  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these)  
conform(s) to the rules for construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2873

21" MSIV Valve PoppetsExpires November 13, 2004

Date 12-10-01 Name Welding Services Inc.  
(NPT Certificate Holder)

Signed [Signature] LUIS YEPEZ  
(authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
Georgia and employed by The Hartford Steam Boiler Inspection and Insurance Co.  
of Hartford, CT have inspected these items described in this Data Report on December 10, 2001 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Code, Section III,  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-10-01 Signed [Signature]  
(Authorized Nuclear Inspector)

Commissions NB # 11465 ABN, GA # 393  
[Nat'l. Bd. (incl. Endorsements) and state or prov. and no.]



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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 80,000 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 2 Cover A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 7	N/A
(2) HT: H3391 S/N 8	N/A
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 7 through S/N 8

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed R. J. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New YorkAnd employed by H.S.B.I. & I. Co.of Hartford, CThave inspected these items described in this Data Report on 12/14/01, and state that to the

best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/14/01 Signed [Signature]  
(authorized inspector)

Commissions NY 5070 A, N  
[Nat'l Bd. (incl. Endorsements) and state or prov. and no.]

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York

And employed by

H.S.B.I & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III, Division 1. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

Date 12/17/01 Signed Anthony C. Cole Commissions NY5070 AN  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

REPAIRED BY	CONTINENTAL FIELD SYSTEMS, INC. SAVANNAH, GEORGIA
DATE REPAIRED	
DATE REPAIRED	
DATE REPAIRED	



1. Work performed by Continental Field Systems, INC 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)

2. Owner PPL LLC  
(name)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA Salem Twp, PA

5. a: Items Which Required Repair, Modification, or Replacement Activities See Attached

5. b: Items Installed During Replacement Activities See Attached

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 S 71 N/A  
(edition) (addenda) (Code Case(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_

11. Description of work: See Attached

(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See Attached Manufacturer's Data Report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18, 2002 Signed David McCathie Quality Control Manager  
(name) (authorized representative) (title)

#### CERTIFICATE OF INSPECTION

I, William R. Rogers III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON RI have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24, 2002 Signed William R. Rogers III Commissions NB7980A, N.I., BNS PA2204  
(inspector) (National Board (incl. endorsements), jurisdiction, and no.)

**Form NR-1 Attachment****Report of Repair / Replacement**

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022D**

Items Which Required Repair, Modification, or Replacement Activities

Identification								Construction Code				
No	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	4-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	WSI	9	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	9	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	9	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 162A Valve HV 141 F022D**

- |   |                   |                        |                       |
|---|-------------------|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection:              | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:    | 1971<br>(edition) | Summer 71<br>(addenda) | 1<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted      N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: (3) appendages were attached to the poppet to facilitate installation of the re-designed poppet.

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Welding Services, Inc. 2225 Skyland Court, Norcross GA, 30071  
(name and address of NPT Certificate Holder)

2. Manufactured for Atwood & Morrill Co. 285 Canal Street. Salem, MA 01970  
(name and address of Purchaser)

3. Location of installation PPL Susquehanna Nuclear Power Plant. Berwick, PA. 18603  
(name and address)

4. Type: A & M Dwg D-32467-622 R/7 SA 105 Gr.II 70.0 Ksi N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1971 S 1971 1 N/A  
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)

7. Remarks: 21" MSIV Valve Poppet SA 105 Gr.II with SFA 5.13 Alloy 21 Stellite 21 Hardsurfacing. Heat # 245951 for SA 105 Gr. II  
Heat #s 00-21-01, 00-21-05, 00-21-06, 101001836, 01-0876 and 1210-NO832R125 for Stellite 21

8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) 21" Nom. OD Length overall (ft & in.) 31"

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 245951-1		(26)	
(2) 245951-2		(27)	
(3) 245951-4		(28)	
(4) 245951-5		(29)	
(5) 245951-7		(30)	
(6) 245951-8		(31)	
(7) 245951-9		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88) This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.  
Reprint (7/91)

## FORM N-2 (Back - Page 2 of 2 )

Certificate Holder's Serial Nos. HI # 245951 through 1,2,4,5,7,8,9

## CERTIFICATION OF DESIGN

Design Specifications certified by Boyd P. Brooks P.E. State CA Reg. No. 13655  
(when applicable)

Design Report\* certified by Herbert Cook P.E. State MA Reg. No. 10981  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) 21" MSIV Valve Poppets  
conform(s) to the rules for construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2873 Expires November 13, 2004

Date 12-10-01 Name Welding Services Inc. Signed [Signature] LOIS YEPEZ  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia  
and employed by The Hartford Steam Boiler Inspection and Insurance Co.  
of Hartford, CT have inspected these items described in this Data Report on December 10, 2001 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Code, Section III,  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-10-01 Signed [Signature] Commissions NB # 11465 ABN, GA # 393  
(Authorized Nuclear Inspector) [Nat'l. Bd. (incl. Endorsements) and state or prov. and no.]



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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

- Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
- Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
- Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
- Type: \*32162-409-D Rev. 1 SA 105 GR II 81,500PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
- Remarks: Cust. Item 01 A&M Item 11 Qty. 1 Cover A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
- Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 9	N/A
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 9 through S/N N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York  
Hartford, CT

And employed by H.S.B.I & I. Co.

have inspected these items described in this Data Report on 12/14/01, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/14/01 Signed [Signature] Commissions NY5070 R.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)



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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
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(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

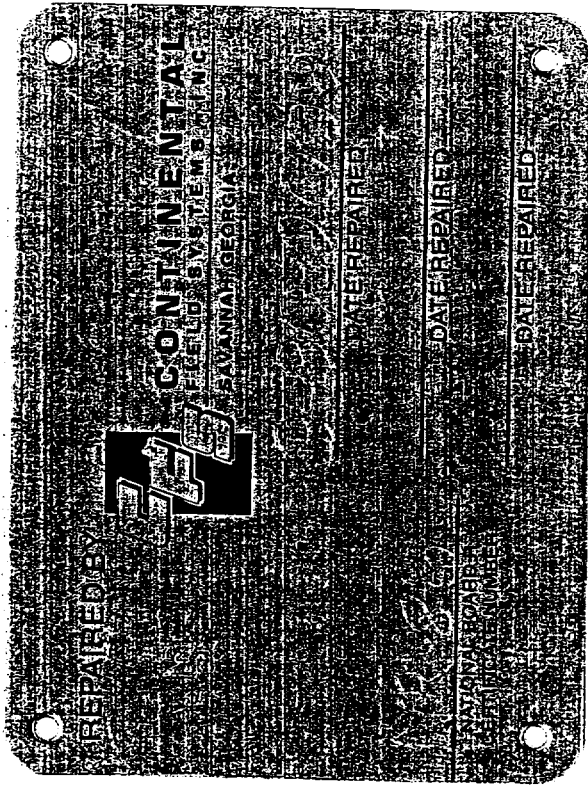
## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.  
of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/17/01 Signed Anthony Cole Commissions NY5070 AN  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)



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

1. Owner PPL Susquehanna, LLC Date 04/25/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 ECO 179460, PCWO 345125  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System REACTOR VESSEL AND AUXILIARIES SYSTEM 162A CLASS 2
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, Winter 72 Addenda, N-411 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADDENDA
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCB112-H2003	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	23599	N/A	SPDCB112-H2003	1981	REPLACED	N/A
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCB112-H2014	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	13942	N/A	SPDCB112-H2014	1981	REPLACED	N/A

7. Description of Work REMOVE SNUBBER / NO REPLACEMENT

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

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

# FORM NIS-2 (Back)

9. Remarks

## CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designer, Title Supv. - Site Modifications Group

## CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-28-01 to 3-20-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 P. Rogers III Commissions NB7980 A, N, I, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 17 2002

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

1. Owner PPL Susquehanna, LLC Date 04/25/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address ECO 179459, PCWO 345105  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System REACTOR RECIRCULATION SYSTEM 164A CLASS I
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, Winter 72 Addenda, N-411 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADDENDA
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCA120-H2006	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	23573	N/A	SPDCA120-H2006	1981	REPLACED	N/A

7. Description of Work REMOVE SNUBBER / NO REPLACEMENT

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

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

FORM NIS-2 (Back)

9. Remarks Applicable Construction Code: ASME III 1971 Edition thru Winter 1972 Addenda

1" & smaller Nuclear Class I piping designed in accordance with the rules of Nuclear Class 2 piping  
per ASME III, 1974 Edition, Summer 1975 Addenda, paragraph NB-3630.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-28-01 to 3-20-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB 7980A, N, I, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 17 2002

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

1. Owner 769 Salem Blvd, Berwick, PA 18603 Date 04/25/2002  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 ECO 179459, PCWO 345109  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System REACTOR RECIRCULATION SYSTEM 164A CLASS II
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, Winter 72 Addenda, N-411 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADDENDA
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCB112-H2094	1982	REPLACED	NO
MECH SNUBBER	PACIFIC SCIENTIFIC	22861	N/A	SPDCB112-H2094	1981	REPLACED	N/A

7. Description of Work REMOVE SNUBBER / NO REPLACEMENT

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

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



FORM NIS-2 (Back)

9. Remarks Applicable Construction Code: ASME III 1971 Edition thru Winter 1972 Ad. Code Case N-411

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date June 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-28-01 to 3-8-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date JUNE 17 2002

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

1. Owner PPL Susquehanna, LLC Date 05/25/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 MODIFICATIONS: 179459, 391402, & 391467  
 WORK ORDERS: 345105, 391433, & 391471  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System REACTOR RECIRCULATION SYSTEM 164D CLASS 2
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, Winter 72 Addenda, N-411 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADDENDA
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCB106-H2022	1982	REPLACED	NO
2) MECH SNUBBER	PACIFIC SCIENTIFIC	24388	N/A	SPDCB106-H2022	1982	REPLACED	N/A
3) SMALL PIPE	BECHTEL	N/A	N/A	SPDCB106-6	1982	REPLACED	YES
4) SMALL PIPE	PPL	N/A	N/A	SPDCB106-6	2002	REPLACEMENT	NO
5) SMALL PIPE	BECHTEL	N/A	N/A	SPDCB108-3	1982	REPLACED	YES
6) SMALL PIPE	PPL	N/A	N/A	SPDCB108-3	2002	REPLACEMENT	NO
7) SMALL PIPE	BECHTEL	N/A	N/A	SPDCB121-4	1982	REPLACED	YES

7. Description of Work Permanent removal of snubber support, and replaced piping do to socket weld UT exam failures.

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

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

# FORM NIS-2 (Back)

9. Remarks

## CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed *[Signature]* Date June 12, 2002  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

## CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-28-01 to 3-27-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Piquette III* Commissions NB7980 A, N, I, R, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

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

<p>1. Owner <u>PPL Susquehanna, LLC</u>  <small>Name</small></p> <p><u>769 Salem Blvd, Berwick, PA 18603</u>  <small>Address</small></p>	<p>Date <u>05/25/2002</u></p> <p>Sheet <u>2</u> of <u>2</u></p>
<p>2. Plant <u>Susquehanna Steam Electric Station</u>  <small>Name</small></p> <p><u>769 Salem Blvd, Berwick, PA 18603</u>  <small>Address</small></p>	<p>Unit <u>ONE</u></p> <p>MODIFICATIONS: 179459, 391402, &amp; 391467          WORK ORDERS: 345105, 391433, &amp; 391471  <small>Repair Organization P.O. No., Job No., etc.</small></p>
<p>3. Work Performed by <u>PPL Susquehanna, LLC</u>  <small>Name</small></p> <p><u>769 Salem Blvd, Berwick, PA 18603</u>  <small>Address</small></p>	<p>Type Code Symbol Stamp <u>None</u></p> <p>Authorization No. <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p>
<p>4. Identification of System _____</p>	
<p>5. (a) Applicable Construction Code <u>III</u> 19 <u>71</u> Edition, <u>thru W'72</u> Addenda, <u>N-411</u> Code Case          (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u></p>	
<p>6. Identification of Components Repaired or Replaced and Replacement Components</p>	

Name of 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) SMALL PIPE	PPL	N/A	N/A	SPDCB121-4	2002	REPLACEMENT	NO

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

1. Owner PPL Susquehanna, LLC Date 4/25/2002  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
PCWO 345898, 345911, 345920, 345927  
DCP 316333, 316334, 316335, 316336  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System 183A, Main Steam; Class 1

5. (a) Applicable Construction Code III 19 71 Edition, thru S' 71 Addenda, 1535-2 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
26" MSIV	Atwood & Morrill	5-221	NA	HV141F028A	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	5-221	NA	HV141F028A	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F028A	2001	Replacement	No
Poppet	Atwood & Morrill	245951-3	NA	HV141F028A	2001	Replacement	Yes
Bonnet Cover	Atwood & Morrill	H3391-1	NA	HV141F028A	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-1	NA	HV141F028A	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F028A	2001	Replacement	No

7. Description of Work Improve seating characteristics and maintainability of MSIVs

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ SE-100-002/SE-000-017  
 Other ☐ Pressure 975 psi Test Temp. 521 °F

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

# FORM NIS-2 (Back)

## 9. Remarks

Installation work performed by Continental Field Systems, Inc. under their National Board NR Program. National Board Forms NR-1 and ASME Forms N-2 are attached.

### CERTIFICATION 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 N/A

Signed [Signature] Date June 26, 20 02  
Owner, or Owner's Designee, Title Supv. - Site Modifications Group

### CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 2-28-02 to 6-24-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Pogue III Commissions NB7980A, N.I.B.N.S. PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 28 2002

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

1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>Two North Ninth St., Allentown, PA 18101</u> <small>Address</small>	Date <u>4/25/2002</u> Sheet <u>2</u> of <u>3</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>One</u> PCWO 345898, 345911, 345920, 345927 DCP 316333, 316334, 316335, 316336 <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>Two North Ninth St., Allentown, PA 18101</u> <small>Address</small>	Type Code Symbol Stamp <u>None</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
4. Identification of System <u>183A, Main Steam; Class 1</u>	
5. (a) Applicable Construction Code <u>III</u> 19 <u>71</u> Edition, <u>thru S' 71</u> Addenda, <u>1535-2</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u>	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
26" MSIV	Atwood & Morrill	6-221	NA	HV141F028B	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	6-221	NA	HV141F028B	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F028B	2001	Replacement	No
Poppet	Welding Services Inc.	245951-1	NA	HV141F028B	2001	Replacement	Yes
Bonnet Cover	Atwood & Morrill	H3391-4	NA	HV141F028B	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-4	NA	HV141F028B	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F028B	2001	Replacement	No
26" MSIV	Atwood & Morrill	7-221	NA	HV141F028C	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	7-221	NA	HV141F028C	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F028C	2001	Replacement	No
Poppet	Welding Services Inc.	245951-2	NA	HV141F028C	2001	Replacement	Yes

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

1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>Two North Ninth St., Allentown, PA 18101</u> <small>Address</small>	Date <u>4/25/2002</u> Sheet <u>3</u> of <u>3</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>One</u> PCWO 345898, 345911, 345920, 345927 DCP 316333, 316334, 316335, 316336 <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>Two North Ninth St., Allentown, PA 18101</u> <small>Address</small>	Type Code Symbol Stamp <u>None</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
4. Identification of System <u>183A, Main Steam; Class 1</u>	
5. (a) Applicable Construction Code <u>III</u> 19 <u>71</u> Edition, <u>thru S' 71</u> Addenda, <u>1535-2</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u>	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Bonnet Cover	Atwood & Morrill	H3391-6	NA	HV141F028C	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-6	NA	HV141F028C	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F028C	2001	Replacement	No
26" MSIV	Atwood & Morrill	8-221	NA	HV141F028D	1974	Replaced	Yes
26" MSIV	Atwood & Morrill	8-221	NA	HV141F028D	1974	Repaired	Yes
Super Bolts ( torque nut assemblies)	Atwood & Morrill	N/A	NA	HV141F028D	2001	Replacement	No
Poppet	Atwood & Morrill	245951-6	NA	HV141F028D	2001	Replacement	Yes
Bonnet Cover	Atwood & Morrill	H3391-2	NA	HV141F028D	2001	Replacement	Yes
Pilot Poppet	Atwood & Morrill	54682-2	NA	HV141F028D	2001	Replacement	Yes
Body/Bonnet Stud	Atwood & Morrill	NA	NA	HV141F028D	2001	Replacement	No



FORM NR-1 REPORT OF REPAIR ☐ MODIFICATION ☐ OR REPLACEMENT ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)

23 Westgate Blvd. Savannah, GA 31405  
(address)

2. Owner PPL LLC  
(name)

2 North Ninth Street, Allentown, PA 18101  
(address)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA Salem Twp, PA

4. System 1-83 HV141FO28A Main Steam

5. a: Items Which Required Repair, Modification, or Replacement Activities See Attached

[illegible]

5. b: Items Installed During Replacement Activities See Attached

[illegible]

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 S 71 N/A  
(edition) (addenda) (Code Case(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_

11. Description of work: See Attached  
(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See attached manufacturer's data report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18, 2002 Signed David McCathie <sup>(name)</sup> Quality Control Manager  
(authorized representative) (title)

#### CERTIFICATE OF INSPECTION

I, William R. Rogers III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSON RI have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24, 2002 Signed William R. Rogers III <sup>(inspector)</sup> Commissions NR79BOAN.E.B.NS PA2204  
(National Board (incl. endorsements), jurisdiction, and no.)

**Form NR-1 Attachment****Report of Repair / Replacement**

Worked Performed by **Continental Field Systems, Inc.**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028A**

Items Which Required Repair, Modification, or Replacement Activities  
Identification

Construction Code												
No.	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	5-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Construction Code											
Identification											
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	A&M	3	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	1	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	1	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems, Inc.**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028A**

- |   |                   |                        |                       |
|---|-------------------|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection:              | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:    | 1971<br>(edition) | Summer 71<br>(addenda) | I<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted      N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: Lower guide rib was extended to compensate for the installation of the re-designed poppet.

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 81,600 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 3 Cover A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 1	N/A
(2) HT: H3391 S/N 2	N/A
(3) HT: H3391 S/N 3	N/A
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 1 through S/N 3

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.  
of Hartford, CT have inspected these items described in this Data Report on 12/14/01, and state that to the  
Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
Division 1. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

Date 12/14/01 Signed [Signature] Commissions NY5070 A.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
New York And employed by H.S.B.I & I. Co.  
of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
Division 1. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

Date 12/17/01 Signed Anthony Clark Commissions NY5070 AN  
(authorized inspector) [Nat'l Bd. (incl. Endorsements) and state or prov. and no.]



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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32467-622-D Rev.7 SA 105 GR II 77,100 PSI N/A 2001  
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty.1 Poppet A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 7.312 Min. design thickness (in.) 5.49 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 245951 S/N 3	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/91)

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 245951 S/N 3 through N/A

## CERTIFICATION OF DESIGN

Design specifications certified by	<u>N/A</u> <small>(when applicable)</small>	P.E. State	<u>N/A</u>	Reg. no.	<u>N/A</u>
Design report * certified by	<u>N/A</u> <small>(when applicable)</small>	P.E. State	<u>N/A</u>	Reg. no.	<u>N/A</u>

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed *David A. Sullivan*  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of


New York

And employed by

H.S.B.I & I. Co.of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/17/01 Signed *Anthony C. Goh* Commissions *NYSD70 A N*  
(authorized inspector) (Natl Bd. (incl. Endorsements) and state or prov. and no.)

REPAIRED		CONTINENTAL FIELD SYSTEMS, INC. SAVANNAH, GEORGIA
12/22/77		REPAIRED
NATIONAL BOARD OF CERTIFICATION		DATE REPAIRED
		DATE REPAIRED

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)  
23 Westgate Blvd. Savannah, GA 31405  
(address)

2 North Ninth Street, Allentown, PA 18101  
(address)

4. System 1-83 HV141F028B Main Steam

[illegible][illegible]

9. Design responsibilities: Atwood & Morrill Co.

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

11. Description of work: See Attached  
(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See attached manufacturer's data report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18 2002 Signed David McCathie (name) Quality Control Manager (title)  
(authorized representative)

#### CERTIFICATE OF INSPECTION

I, William R. Rogers III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON RI have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24, 2002 Signed William R. Rogers III (inspector) Commissions NB7980A, N.I.B.NS PAZZ04  
(National Board (incl. endorsements), jurisdiction, and no.)

**Form NR-1 Attachment****Report of Repair / Replacement**

Worked Performed by **Continental Field Systems, Inc.**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028B**

Items Which Required Repair, Modification, or Replacement Activities  
Identification

No	Identification							Construction Code				
	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	6-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	WSI	1	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	4	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	4	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems, Inc.**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028B**

- |   |                   |                        |                       |
|---|-------------------|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection:              | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:    | 1971<br>(edition) | Summer 71<br>(addenda) | I<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted        N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: Lower guide rib was extended to compensate for the installation of the re-designed poppet.

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Welding Services, Inc. 2225 Skyland Court, Norcross GA, 30071  
(name and address of NPT Certificate Holder)
2. Manufactured for Atwood & Morril Co. 285 Canal Street. Salem, MA 01970  
(name and address of Purchaser)
3. Location of installation PPL Susquehanna Nuclear Power Plant. Berwick, PA. 18603  
(name and address)
4. Type: A & M Dwg D-32467-622 R/7 SA 105 Gr.II 70.0 Ksi N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S 1971 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: 21" MSIV Valve Poppet SA 105 Gr.II with SFA 5.13 Alloy 21 Stellite 21 Hardsurfacing. Heat # 245951 for SA 105 Gr. II  
Heat #s 00-21-01, 00-21-05, 00-21-06, 101001836, 01-0876 and 1210-NO832R125 for Stellite 21

8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) 21" Nom. 00 Length overall (ft & in.) 31"

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 245951-1		(26)	
(2) 245951-2		(27)	
(3) 245951-4		(28)	
(4) 245951-5		(29)	
(5) 245951-7		(30)	
(6) 245951-8		(31)	
(7) 245951-9		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88) This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. Reprint (7/91)



## FORM N-2 (Back - Page 2 of 2 )

Certificate Holder's Serial Nos. HI # 245951 through 1,2,4,5,7,8,9

## CERTIFICATION OF DESIGN

Design Specifications certified by	<u>Boyd P. Brooks</u> (when applicable)	P.E. State	<u>CA</u>	Reg. No.	<u>13655</u>
Design Report* certified by	<u>Herbert Cook</u> (when applicable)	P.E. State	<u>MA</u>	Reg. No.	<u>10981</u>

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) conform(s) to the rules for construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2873

21" MSIV Valve PoppetsExpires November 13, 2004Date 12-10-01 Name Welding Services Inc.  
(NPT Certificate Holder)Signed [Signature] LUIS YEPEZ  
(authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected these items described in this Data Report on December 10, 2001 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-10-01 Signed [Signature]  
(Authorized Nuclear Inspector)Commissions NB # 11465 ABN, GA # 393  
[Nat'l. Bd. (incl. Endorsements) and state or prov. and no.]

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 77,900 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda data) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 3 Cover A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 4	N/A
(2) HT: H3391 S/N 5	N/A
(3) HT: H3391 S/N 6	N/A
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
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(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 4 through S/N 6

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N2607 Expires 6-13-04Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New YorkAnd employed by H.S.B.I. & I. Co.of Hartford, CT have inspected these items described in this Data Report on 12/14/01, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/14/01 Signed [Signature]  
(authorized inspector)Commissions NY5070 A.N.  
(Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121\_QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
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(36)	
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(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/17/01 Signed Anthony Cole Commissions NY5070 A.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

REPAIRED BY	CONTINENTAL FIELD SYSTEMS, INC. SAVANNAH, GEORGIA
DATE REPAIRED	DATE REPAIRED
REPAIRED BY	DATE REPAIRED
DATE REPAIRED	DATE REPAIRED

FORM NR-1    REPORT OF REPAIR ☒    MODIFICATION ☐    OR REPLACEMENT ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)

23 Westgate Blvd. Savannah, GA 31405  
(address)

2. Owner PPL LLC  
(name)

2 North Ninth Street, Allentown, PA 18101  
(address)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA Salem Twp. PA

4. System	1-83	HV141F028C	Main Steam
-----------	------	------------	------------

5. a: Items Which Required Repair, Modification, or Replacement Activities	See Attached
--	--------------

[illegible]

5. b: Items Installed During Replacement Activities See Attached

[illegible]

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 N/A N/A  
(edition) (addenda) (Code Cases(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_

11. Description of work: See Attached  
(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See attached manufacturer's data report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc.

Date 6/18, 2002 Signed David McCathie (name) Quality Control Manager (title)  
(authorized representative)

#### CERTIFICATE OF INSPECTION

I, WILLIAM R. ROGERS III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON RI have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24, 2002 Signed William R. Rogers III (inspector) Commissions NB7980A.N.I., B.N.S. PA2204  
(National Board (incl. endorsements), jurisdiction, and no.)



**Form NR-1 Attachment****Report of Repair / Replacement**

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028C**

**Items Which Required Repair, Modification, or Replacement Activities**

Identification								Construction Code				
No	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	7-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

**Items Installed During Replacement Activities**

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	WSI	2	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	6	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	6	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028C**

- |   |                        |                       |
|---|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection: 1989<br>(edition)              | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements: 1971<br>(edition)    | Summer 71<br>(addenda) | I<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted      N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: Lower guide rib was extended to compensate for the installation of the re-designed poppet.

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Welding Services, Inc. 2225 Skyland Court, Norcross GA, 30071  
(name and address of NPT Certificate Holder)
2. Manufactured for Atwood & Morrill Co. 285 Canal Street, Salem, MA 01970  
(name and address of Purchaser)
3. Location of installation PPL Susquehanna Nuclear Power Plant, Berwick, PA. 18603  
(name and address)
4. Type: A & M Dwg D-32467-622 R/7 SA 105 Gr.II 70.0 Ksi N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S 1971 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: 21" MSIV Valve Poppet SA 105 Gr.II with SFA 5.13 Alloy 21 Stellite 21 Hardsurfacing. Heat # 245951 for SA 105 Gr. II  
Heat #s 00-21-01, 00-21-05, 00-21-06, 101001836, 01-0876 and 1210-NO832R125 for Stellite 21

8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) 21" Nom. 00 Length overall (ft & in.) 31"
9. When applicable, Certificate Holder's Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 245951-1		(26)	
(2) 245951-2		(27)	
(3) 245951-4		(28)	
(4) 245951-5		(29)	
(5) 245951-7		(30)	
(6) 245951-8		(31)	
(7) 245951-9		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88) This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.  
Reprint (7/91)

## FORM N-2 (Back - Page 2 of 2 )

Certificate Holder's Serial Nos. HI # 245951 through 1,2,4,5,7,8,9

## CERTIFICATION OF DESIGN

Design Specifications certified by Boyd P. Brooks P.E. State CA Reg. No. 13655  
(when applicable)

Design Report\* certified by Herbert Cook P.E. State MA Reg. No. 10981  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these)  
conform(s) to the rules for construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2873

21" MSIV Valve PoppetsExpires November 13, 2004

Date 12-10-01 Name Welding Services Inc.  
(NPT Certificate Holder)

Signed [Signature] LUIS YEPEZ  
(authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
Georgia and employed by The Hartford Steam Boiler Inspection and Insurance Co.  
of Hartford, CT have inspected these items described in this Data Report on December 10, 2001 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME Code, Section III,  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-10-01 Signed [Signature]  
(Authorized Nuclear Inspector)

Commissions NB # 11465 ABN, GA # 393  
[Nat'l. Bd. (incl. Endorsements) and state or prov. and no.]



FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 77,900 PSI N/A 2001  
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 3 Cover A&M P/N 32162-409-2974-000\_QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 4	N/A
(2) HT: H3391 S/N 5	N/A
(3) HT: H3391 S/N 6	N/A
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
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(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
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(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

0. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 4 through S/N 6

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New YorkAnd employed by H.S.B.I. & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/14/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/14/01 Signed [Signature] Commissions NY5070 A.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121\_QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
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(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
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(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

0. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/17/01 Signed Anthony C. Cole Commissions NY5070 A.N.  
(authorized inspector) (Natl Bd. (incl. Endorsements) and state or prov. and no.)



**CONTINENTAL**  
TELESYSTEMS, INC.  
ATLANTA, GEORGIA

# AT REPAIRED

## WATER REPAIRS

## DATE REPAIRED

NATIONAL BOARD OF  
SPECIAL EDUCATION

FORM NR-1 REPORT OF REPAIR ☒ MODIFICATION ☐ OR REPLACEMENT ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Continental Field Systems, Inc 3218  
(name of NR certificate holder) (P.O. no., job no., etc.)  
23 Westgate Blvd. Savannah, GA 31405  
(address)

2. Owner PPL LLC  
(name)  
2 North Ninth Street, Allentown, PA 18101  
(address)

3. Name, address and identification of nuclear power plant Susquehanna Steam Electric  
5 Miles North of Berwick, PA SalemTwp.PA

4. System 1-83 HV141FO28D MainSteam

5. a: Items Which Required Repair, Modification, or Replacement Activities See Attached

[illegible]

5. b: Items Installed During Replacement Activities See Attached

[illegible]

6. ASME Code Section XI applicable for inservice inspection: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

7. ASME Code Section XI used for repairs, modifications, or replacements: 1989 N/A N/A  
(edition) (addenda) (Code Cases(s))

8. Construction Code used for repairs, modifications, or replacements: 1971 S 71 N/A  
(edition) (addenda) (Code Cases(s))

9. Design responsibilities: Atwood & Morrill Co.

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi Code Case(s) \_\_\_\_\_

11. Description of work: See Attached  
(use of properly identified additional sheet(s) or sketch(es) is acceptable)

12. Remarks: See Attached Manufacturer's Data Report

#### CERTIFICATE OF COMPLIANCE

I, David McCathie, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement activities described above conforms to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. NR-86 to use the "NR" stamp expires 5/25, 2003

NR Certificate Holder Continental Field Systems, Inc

Date 6/18, 2002 Signed David McCathie (name) Quality Control Manager (title)  
(authorized representative)

#### CERTIFICATE OF INSPECTION

I, WILLIAM R. ROGERS III, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON RI have inspected the repair, modification or replacement described in this report on 4-1, 2002 and state that to the best of my knowledge and belief, this repair, modification or replacement activity has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date JUNE 24 2002 Signed William R. Rogers III Commissions NB7980A.N.I.B.N.S PA 2204  
(inspector) (National Board (incl. endorsements), jurisdiction, and no.)

**Form NR-1 Attachment****Report of Repair / Replacement**

Worked Performed by **Continental Field Systems, Inc.**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028D**

Items Which Required Repair, Modification, or Replacement Activities  
Identification

Identification								Construction Code				
No	Type of Item	Mfg. Name	Mfg. Serial #	Nat'l Bd. No.	Jurisdiction No.	Other	Year Built	Name/ Section/ Division	Edition / Addenda	Code Case(s)	Code Class	Repair/ Replace
1	MSIV	A&M	8-221	N/A	N/A	N/A	1974	ASME III /NB	1971/S71	1535-2	I	Repair
2												

Items Installed During Replacement Activities

Identification								Construction Code			
Item	Installed/ Replaced	MFG. Name	Mfg. Serial No.	Nat'l Bd. No.	Jurisd. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Poppet	Replaced	A&M	6	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Bonnet	Replaced	A&M	2	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Pilot Poppet	Replaced	A&M	2	N/A	N/A	N/A	2001	III NB	71 Ed. S71 A	N/A	I
Super Nuts	Replaced	A&M	NU-01017	N/A	N/A	N/A	2002	III NB	71 Ed. S71 A	N/A	I

## Form NR-1 Attachment

## Report of Repair / Replacement

Worked Performed by **Continental Field Systems, Inc.**  
23 Westgate Blvd., Savannah, Georgia 31405

Job Number 3218

Owner: **PPL LLC**  
2 North 9<sup>th</sup> St. , Allentown, Pennsylvania

Location: **PPL SSES**  
5 Mi. N. Berwick, Pennsylvania

System: **Main Steam 183 Valve HV 141 F028D**

- |   |                   |                        |                       |
|---|-------------------|------------------------|-----------------------|
| 6. ASME Code Section XI applicable for inservice inspection:              | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 7. ASME Code Section XI used for repairs, modifications, or replacements: | 1989<br>(edition) | N/A<br>(addenda)       | N/A<br>(Code Case(s)) |
| 8. Construction Code used for repairs, modifications, or replacements:    | 1971<br>(edition) | Summer 71<br>(addenda) | I<br>Code Case        |
9. Design Responsibilities: Atwood & Morrill
10. Test Conducted      N/A
11. Description of Work: Perform in body machining to allow clearances for modified poppet, remove OEM parts, and replace with new components from OEM as part of valve enhancement.
12. Remarks: Lower guide rib was extended to compensate for the installation of the re-designed poppet.

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

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32162-409-D Rev. 1 SA 105 GR II 81,600 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 3 Cover A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda
8. Nom. Thickness (in.) 5.312 Min. design thickness (in.) 5.094 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: H3391 S/N 1	N/A
(2) HT: H3391 S/N 2	N/A
(3) HT: H3391 S/N 3	N/A
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
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(47)	
(48)	
(49)	
(50)	

0. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: H3391 S/N 1 through S/N 3

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Cover  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/14/01 Name Atwood & Morrill Co., Inc. Signed Brian Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.  
of Hartford, CT have inspected these items described in this Data Report on 12/14/01, and state that to the  
Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
Division 1. Each part listed has been authorized for stamping on the date shown above.  
signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

Date 12/14/01 Signed [Signature] Commissions NY5070 A.N.  
(authorized inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)
4. Type: \*32462-613-C Rev.0 SA 479-304 85,700 PSI N/A 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 A&M Item 11 Qty. 8 Pilot Poppet A&M P/N 32462-613-4226-121 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition Summer 1971 addenda
8. Nom. Thickness (in.) 1.50 Min. design thickness (in.) 1.36 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 54682 S/N 1	N/A
(2) HT: 54682 S/N 2	N/A
(3) HT: 54682 S/N 3	N/A
(4) HT: 54682 S/N 4	N/A
(5) HT: 54682 S/N 5	N/A
(6) HT: 54682 S/N 6	N/A
(7) HT: 54682 S/N 8	N/A
(8) HT: 54682 S/N 9	N/A
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
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(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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



## FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 54682 S/N 1 through S/N 6, 8 & 9

## CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

Design report \* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pilot Poppet  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/17/01 Name Atwood & Morrill Co., Inc. Signed Brian D. Sullivan  
(NPT Certificate Holder) (authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/17/01, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/17/01 Signed Anthony Clark Commissions NY5070 AN  
(authorized inspector) [Nat'l Bd. (incl. Endorsements) and state or prov. and no.]

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Berwick, PA 18603  
(name and address of Purchaser)

3. Location of installation Susquehanna II 2 North Ninth Street Allentown, PA 18101-1179  
(name and address)

4. Type: \*32467-622-D Rev.7 SA 105 GR II 77,100 PSI N/A 2001  
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1971 S71 1 N/A  
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)

7. Remarks: Cust. Item 01 A&M Item 11 Qty.1 Poppet A&M P/N 32162-409-2974-000 QLA  
(A&M S.O. 90168) \*Dwg. prepared by A&M. This certification meets the required information of ASME  
Section III 1971 Edition summer 1971 addenda

8. Nom. Thickness (in.) 7.500 Min. design thickness (in.) 5.49 Dia. ID (ft & in.) N/A Length overall (ft& in.) N/A

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 245951 S/N 6	N/A
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
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(22)	
(23)	
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Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
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(47)	
(48)	
(49)	
(50)	

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

Reprint (7/ 81)

FORM N-2 (Back – Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: 245951 S/N 6 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by	N/A	P.E. State	N/A	Reg. no.	N/A
	(when applicable)				
Design report * certified by	N/A	P.E. State	N/A	Reg. no.	N/A
	(when applicable)				

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Poppet conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 12/19/01 Name Atwood & Morrill Co., Inc. Signed Brian A. Sullivan (NPT Certificate Holder) (authorized representative)


CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

New York And employed by H.S.B.I & I. Co.

of Hartford, CT have inspected these items described in this Data Report on 12/19/01, and state that to the Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 12/19/01 Signed [Signature] Commissions NY 5070 A.N. (authorized inspector) [Nat'l Bd. (incl. Endorsements) and state or prov. and no.]

REPAIRED BY	DATE REPAIRED
	
<b>CONTINENTAL</b> FIELD SYSTEMS, INC. SAVANNAH, GEORGIA	
MR. S. C.	DATE REPAIRED
NATION REPAIR CERTIFICATE NUMBER	DATE REPAIRED

# APPENDIX D.3

## SNUBBER REPLACEMENT NIS-2 FORMS

# ISI SNUBBER REPLACEMENT AND REPAIR NIS-2 SUMMARY

## 1.0 INTRODUCTION

This summary identifies the work performed on ASME Section XI Snubbers (Classes 1, 2 or 3 Safety Related Snubbers, parts for replacements and repairs for which ISI has NIS-2 responsibility). This work was performed during the Unit 1 - 12<sup>th</sup> Refueling and Inspection Outage.

## 2.0 CODE COMPLIANCE SUMMARY

All work on ASME Section XI items meet the requirements of IWA-7000 (Replacement) and IWA-4000 (Repair) of ASME Section XI 1989 Edition, no Addenda.

## 3.0 REPLACEMENT AND REPAIR SUMMARY

Work in this area consists of Work Orders for Section XI replacements of snubbers, parts and ASME Section XI Repair.

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

3.B Summary of replacement of snubber parts by system, Work Order Number, Support Number, and Replaced Parts (See Attachment 3.B).

3.C Summary of repair tack weld shim by System, Work Order Number, Support Number by System, and Repair (see Attachment 3.C).

**SNUBBERS REPLACED**

<b>N-5 SUS.</b>	<b>WORK ORDER</b>	<b>SUPPORT IDENTIFICATION</b>
183A-II	311260	DBB101H5B
183E-III	299126	SPHCC131H2019
183E-III	299126	SPHCC138H2009

**REPLACEMENT OF SNUBBER PARTS**

<b>N-5 SUS.</b>	<b>WORK ORDER</b>	<b>SUPPORT IDENTIFICATION</b>	<b>REPLACED PARTS</b>
161B-I	311258	DBA101H8	1 Load Stud, 2 Heavy Hex Nuts



**REPAIR OF SUPPORT PART**

<b>N-5 SUS.</b>	<b>WORK ORDER</b>	<b>SUPPORT IDENTIFICATION</b>	<b>REPAIR PART</b>
149A-II	390868	GBB104H8	Large Bore Pipe Support (SHIM)

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

1. Owner PPL Susquehanna, LLC Date 5/03/02  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Maint PCWO 390868 Code Form No. I 02 149 004  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System 149A, Class II, RHR System - Pool Spray, Pumps and Auxiliary
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Add.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (SHIM)	Bechtel	N/A	N/A	GBB104H8	1982	Repaired	No

7. Description of Work Repaired by tack welding of SHIM.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None X  
 Other ☐ Pressure            psi Test Temp.            °F

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

# FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this 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 5/9/02, 20 02  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

## CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 03/01/02 to 04/01/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regan Commissions NB7980 I PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 10 2002

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

1. Owner PPL Susquehanna, LLC Date 5/03/02  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 MAIN/PCWO Code Form No.  
 311258 102 161 005  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System 161B, Class I, Reactor Water Clean-Up

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADD.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1 Load Stud	GRINNEL	Item #13*(1)	N/A	DBA101H8	*(1)	Replaced	NO
1 Load Stud	GRINNEL	Item #13*(1)	N/A	DBA101H8	*(1)	Replacement	NO
2 Heavy Hex Nuts	GRINNEL	Item #14*(1)	N/A	DBA101H8	*(1)	Replaced	NO
2 Heavy Hex Nuts	GRINNEL	Item #14*(1)	N/A	DBA101H8	*(1)	Replacement	NO

\*NOTE(1): Serial/Heat Number and Year Built Not Available.

7. Description of Work Replaced existing parts with sufficient replacement parts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☒ X  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date May 9, 20 02  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 03/01/02 to 04/01/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regent Commissions NB7980 | PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 10 2002

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

1. Owner PPL Susquehanna, LLC Date 5/03/02  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Authorization No. N/A  
 Expiration Date N/A

Main/PCWO Code Form No.  
 311260 I 02 183 001  
Repair Organization P.O. No., Job No., etc.

4. Identification of System 183A, Class II, MAIN STEAM

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock Arrestor	Pacific Scientific	00373	N/A	DBB101H5B	None	Replaced	No
Mechanical Shock Arrestor	Pacific Scientific	14413	N/A	DBB101H5B	1983	Replacement	No

7. Description of Work Replaced existing snubber with same size, tested replacement snubber.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None X  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date May 16, 20 02  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 03/01/02 to 04/01/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regus III Commissions NB7980 I PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date May 16 2002

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

1. Owner PPL Susquehanna, LLC Date 5/03/02  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 MAIN/PCWO Code Form No.  
See Sheet 2 of 2  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System 183E, Class III, Auto Pressure Blow Down System
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 NO ADD.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mechanical Shock Arrestor	Pacific Scientific	27972	N/A	SPHCC131H2019	1982	Replaced	NO
Mechanical Shock Arrestor	Pacific Scientific	16349	N/A	SPHCC131H2019	1980	Replacement	NO
Mechanical Shock Arrestor	Pacific Scientific	22868	N/A	SPHCC138H2009	1981	Replaced	NO
Mechanical Shock Arrestor	Pacific Scientific	13130	N/A	SPHCC138H2009	1980	Replacement	NO

7. Description of Work Replaced existing snubbers with same size, tested replacement snubbers.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None X  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date May 9, 20 02  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 03/01/02 to 04/01/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date May 10 2002

Date 5/03/02

Sheet 2 of 2

Unit **ONE**

Maint/PCWO /CodeFormNo.  
SEE BELOW  
Repair Organization P.O. No., Job No., etc.

Type Code Symbol None

Authorization No. N/A

Expiration Date	N/A
-----------------	-----

4. Identification of System 183E, Class III, Auto Pressure Blow Down System

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

#### 6. Identification of Components Repaired or Replaced and Replacement Components

[illegible]

# APPENDIX E

## EROSION/CORROSION SCOPE OF EXAMINATIONS

COMPONENT ID	DESCRIPTION	X NUMBER	%Ero
DBB1222-E1	4" TEE	(X502)	0%
DBC1011-E1	TEE 6"x 4"	(X695)	21.9% BZ2
DBD1012-E4A/B	30x24" TEE	(X51)	25.5% BZ3
DBD1043-E1	10x10 TEE	(X153)	2.3% Z3
DBD1051-E7A/B	TEE16x4"	(X68)	60.7% Z1
DBD1051-E8	ELB/16"	(X54)	70.5% Z3
DLA1021-E3A/B	TEE/20X12	(X-175)	27.9% BZ4
EBC1041-E2	ORIFICE/4"	(X499)	8.0% Z1
EBD1143-E2A/B	TEE/4x1"	(X683)	7.4% AZ1
GBD1013-E2	RED/10"x8"	(X790)	0%
GBD1021-E2	ELB/4	(X-155)	63.3% Z1
GBD1022-E1	ELB/4"	(X191)	56.96% Z1
GBD1031-E1A/B	RED/8x6	(X791)	0%
GBD1033-E1A/B	RED/8x6	(X795)	37.4% AZ1
GBD1042-E1	ELB/3"	(X158)	31.0% Z3
GBD1074-E2	ELB/16"	(X57)	18.7% Z3
GBD1193-E1	ELB/20"	(X148)	.7% Z3
GBD1213-E2	ELB/20"	(X49)	13.2% Z1
GBD1214-E2	ELB/20"	(X60)	2.6% Z3
GBD1261-E1	VALVE/8"	(X218)	52.3% Z1
GBD1361-E1A/B	RED/14x12"	(X797)	28% AZ3
GBD1401-E1	ELB/3"	(X295)	34% Z3
GBD1401-E2	ELB/3"	(X32)	1% Z3
HBD1141-E1	ELB/3"	(X304)	50.0% Z1
HBD1141-E2	ELB/3	(X-34)	48.6% Z3
HBD1212-E4A/B	TEE/48x30"	(X56)	22.4% BZ2A
HBD1681-E3	ELB/4	(X816)	30.0% Z3
SPEAD1148-E1	TEE/4x1"	(X190)	4.08% Z1
SPEBD1141-E1	ELB/1"	(X-134)	25.8% Z3
SPGBD13311-E1	ELB/1"	(X208)	32.1% Z3
SPGBD13320-E1	ELB/1"	(X211)	15.7% Z3
SPGBD13322-E1	ELB/.75"	(X213)	2.7% Z3
SPGBD1337-E1	ELB/1"	(X207)	36.9% Z3
SPHBD1092-E1	ELB/2"	(X205)	46.6% Z3
SPHBD1096-E2	VALVE/2"	(X201)	56.4% Z3
SPHBD10742-E1	ELB/2"	(X38)	20.5% Z3
1SCVL-E12	ELB/1.5	(X-173)	25.5% Z1
1SSH7-E3	ELB/5"	(X189)	1.2% Z3
1SSH8-E25A/B	RED/8x5	(X188)	8.1% BZ3

Unit One - 12th - List c      sion/Corrosion Exams

2SCVL-E24	ELB/1.5	(X370)	31.3% Z1
1E101A-E1Shell	FWHTR	(X888)	33.1% Z3
1E101A-E1Nozzle	24" Pipe	(X888)	45.5% AZ1
1E102A-E1Shell	FWHTR	(X891)	30.4% Z2
1E102A-E1Nozzle	24" Pipe	(X891)	0%

# APPENDIX F

## CONTAINMENT INSPECTIONS

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO	9902XXX		
Examination Category: E-A, Containment Surfaces											
E1.10 Containment Vessel Pressure Retaining Boundary											
E1.11 Accessible Surface Areas											
	Drywell Head										
	Head and Flange	GV	794'		2A	1	1	1	001	345549	NDE-VT 003 Rev 1
	Manhole Hatch	GV			2A	1	1	1	001	345549	NDE-VT 003 Rev 1
Personnel Access Airlock (X-2)											
	External Door	GV	724'	134°	3A, C, D, L	1	1	1	002	345565	NDE-VT 003 Rev 1
	Internal door	GV	724'	134°	3A, C, D, L	1	1	1	002	345565	NDE-VT 003 Rev 1
	External Bulkhead	GV			3C, H	1	1	1	002	345565	NDE-VT 003 Rev 1
	Internal Bulkhead	GV			3C, L	1	1	1	002	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	Barrel Section	GV			3G	1	1	1	002	345565	NDE-VT 003 Rev 1
	Equipment Hatch (X-1)										
	Head and Flange	GV	724'	315°	4A. 4B	1	1	1	003	345565	NDE-VT 003 Rev 1
	Barrel Section	GV	724'	315°	4A. 4B	1	1	1	003	345565	NDE-VT 003 Rev 1
	Examination Category: E-A, Containment Surfaces										
	E1.10 Containment Vessel Pressure Retaining Boundary										
	E1.11 Accessible Surface Areas										
	Drywell - Exterior										
	Drywell Exterior	GV	704' - 719'	0° to 90°	30						
	X-34B	GV	704'	19°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-35A	GV	717'	50°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-35B	GV	717'	48°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-35C	GV	717'	46°	30	1	1	1	004	345565	NDE-VT 003 Rev 1



UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-35D	GV	717'	44°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-35E	GV	717'	41°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-35F	GV	717'	39°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-49B	GV	705'	44°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-83B	GV	705'	15°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-93	GV	717'	37°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-100H	GV	711'	53°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-104H	GV	711'	22°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-104F	GV	711'	36°	30	1	1	1	004	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	704' - 719'	90° to 180°	31						
	X-11	GV	708'	147°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-12	GV	710'	176°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-13B	GV	710'	161°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-15	GV	709'	124°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-90D	GV	711'	141°	31	1	1	1	004	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-18	GV	709'	127°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-19	GV	709'	120°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-30B	GV	705'	132°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-33B	GV	705'	125°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-34A	GV	705'	154°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-48A	GV	705'	157°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-50B	GV	705'	142°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-51B	GV	705'	145°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-52B	GV	705'	137°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-83A	GV	705'	150°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-90E	GV	711'	137°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-90F	GV	711'	133°	31	1	1	1	004	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	704' - 719'	180° to 270°	32						
	X-6 (CRD Hatch)	GV	718'	216°	32	1	1	1	004	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO	9902XXX		
	X-10	GV	714'	209°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-13A	GV	710'	199°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-17	GV	710'	247°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-23	GV	709'	186°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-24	GV	709'	183°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-25	GV	710'	236°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-50A	GV	705'	215°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-72A	GV	704'	229°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-72B	GV	704'	231°	32	1	1	1	004	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	704' - 719'	270° to 360°	33						
	X-30A	GV	710'	322°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-33A	GV	708'	327°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-49A	GV	704'	327°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-51A	GV	704'	324°	33	1	1	1	004	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-52A	GV	708'	323°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-90A	GV	711'	328°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-90B	GV	711'	332°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-90C	GV	711'	336°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-100G	GV	711'	313°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-104E	GV	706'	348°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	X-104G	GV	711'	353°	33	1	1	1	004	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	719' - 749'	0° to 90°	34						
	X-8	GV	731'	0°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-21	GV	731'	40°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-22	GV	734'	43°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-27B	GV	726'	61°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-28B	GV	729'	61°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-29B	GV	732'	61°	34	1	1	1	005	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report #	WG #	Insp Procedure
								12 RIO	9902XXX		
	X-37D	GV	735'	78°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-38D	GV	735'	78°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40E	GV	729'	77°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40F	GV	729'	73°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40G	GV	729'	69°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40H	GV	729'	65°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-44	GV	726'	12°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	x-46	GV	727'	0°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-48B	GV	732'	65°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-53	GV	736'	39°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-54	GV	736'	51°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-58B	GV	735'	65°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-60B	GV	735'	61°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-61B	GV	726'	65°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-62B	GV	726'	69°	34	1	1	1	005	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO	9902XXX		
	X-63B	GV	726'	73°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-64B	GV	726'	77°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-87	GV	734'	46°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-91B	GV	732'	57°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-92	GV	735'	57°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-94	GV	734'	37°	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-7A	GV	740'	0° +3	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-7B	GV	740'	0° +11	34	1	1	1	005	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	719' - 749'	90° to 180°	35						
	X-31B	GV	726'	162°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-37B	GV	735'	102°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-38B	GV	735'	102°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-80A	GV	726'	159°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-80B	GV	726'	156°	35	1	1	1	005	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-80C	GV	726'	153°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-86A	GV	735'	115°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-86B	GV	735'	112°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-88A	GV	721'	114°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-91A	GV	726'	165°	35	1	1	1	005	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	719' - 749'	180° to 270°	36						
	X-5	GV	724'	239°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-27A	GV	732'	239°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-31A	GV	732'	228°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-37A	GV	735'	258°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-38A	GV	735'	258°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40A	GV	730'	243°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40B	GV	729'	248°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-40C	GV	735'	243°	36	1	1	1	005	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. Cisl	Qty	Sch.	1st Period	12 RIO Report # 9902XXX	WG #	Insp Procedure
								12 RIO			
	X-40D	GV	732'	243°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-55	GV	736'	223°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-56	GV	736'	219°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-58A	GV	735'	228°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-61A	GV	726'	243°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-62A	GV	726'	248°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-63A	GV	726'	253°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-64A	GV	729'	253°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-28A	GV	739'	248°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-29A	GV	739'	243°	36	1	1	1	005	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	719' - 749'	270° to 360°	37						
	X-37C	GV	735'	282°	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-38C	GV	735'	282°	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-60A	GV	726'	294°	37	1	1	1	005	345565	NDE-VT 003 Rev 1



UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO	WO #	Insp Procedure
								12 RIO	Report # 9902XXX		
	X-85A	GV	736'	319°	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-85B	GV	736'	322°	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-88B	GV	721'	295°	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-7C	GV	740'	0° -10	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	X-7D	GV	740'	0° -3	37	1	1	1	005	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	749' - 779'	0° to 90°	38						
	X-14	GV	750'	57°	38	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-9B	GV	753'	0° +3	38	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-16B	GV	763'	0° +3	38	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-20	GV	763'	21°	38	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-39B	GV	763'	0° +6	38	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-45	GV	763'	90° -3	38	1	1	1	006	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	749' - 779'	90° to 180°	39						
	X-3B	GV	757'	116°	39	1	1	1	006	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CIST	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-3D	GV	756'	112°	39	1	1	1	006	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	749' - 779'	180° to 270°	40						
	X-36	GV	750'	190°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-42	GV	750'	180°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-3A	GV	756'	248°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-3C	GV	756'	256°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-32B	GV	757'	232°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-39A	GV	753'	195°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-41	GV	754'	186°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-47	GV	757'	192°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-57	GV	755'	190°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-66B	GV	757'	228°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-81B	GV	756'	236°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-82B	GV	756'	240°	40	1	1	1	006	345565	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. C/SI	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-84B	GV	756'	244°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-59B	GV	775'	228°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-65B	GV	768'	228°	40	1	1	1	006	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	749' - 779'	270° to 360°	41						
	X-32A	GV	756'	309°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-66A	GV	756'	305°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-81A	GV	756'	293°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-82A	GV	756'	297°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-84A	GV	756'	301°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-26	GV	772'	78°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-59A	GV	775'	305°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-65A	GV	768'	305°	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-9A	GV	753'	0° -3	41	1	1	1	006	345565	NDE-VT 003 Rev 1
	X-16A	GV	763'	0° -2	41	1	1	1	006	345565	NDE-VT 003 Rev 1

Item	Description	Exam Type	Exam Elev	Az.	Dwg. Cisl.	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO			
	Drywell Exterior	GV	779' - 791'	0° to 90°	42	1	1	no access this area	007	345565	NDE-VT 003 Rev 1
	Drywell Exterior			90° to 180°	43	1	1	no access this area	007	345565	NDE-VT 003 Rev 1
	Drywell Exterior			180° to 270°	44	1	1	no access this area	007	345565	NDE-VT 003 Rev 1
	Drywell Exterior			270° to 360°	45	1	1	no access this area	007	345565	NDE-VT 003 Rev 1
	Drywell Exterior	GV	791' - 794'	0° to 90°	46	1	1	1	008	345565	NDE-VT 003 Rev 1
	Drywell Exterior			90° to 180°	47	1	1	1	008	345565	NDE-VT 003 Rev 1
	Drywell Exterior			180° to 270°	48	1	1	1	008	345565	NDE-VT 003 Rev 1
	Drywell Exterior			270° to 360°	49	1	1	1	008	345565	NDE-VT 003 Rev 1
Examination Category: E-A, Containment Surfaces											
E1.10 Containment Vessel Pressure Retaining Boundary											
E1.11 Accessible Surface Areas											
	<u>Drywell - Interior</u>										
	Drywell Interior	GV	704' - 719'	0° to 90°	50	1	1	1	009	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-34B	GV	704'	19°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-35A	GV	717'	50°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-35B	GV	717'	48°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-35C	GV	717'	46°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-35D	GV	717'	44°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-35E	GV	717'	41°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-35F	GV	717'	39°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-49B	GV	705'	44°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-104F	GV	711'	36°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-83B	GV	705'	15°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-93	GV	717'	37°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-100H	GV	711'	53°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-104H	GV	711'	22°	50	1	1	1	009	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	704' - 719'	90° to 180°	51	1	1	1	009	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-11	GV	708'	147°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-12	GV	710'	176°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-13B	GV	710'	161°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-15	GV	709'	124°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-18	GV	709'	127°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-19	GV	709'	120°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-30B	GV	705'	132°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-33B	GV	705'	125°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-34A	GV	705'	154°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-50B	GV	705'	142°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-51B	GV	705'	145°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-52B	GV	705'	137°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-83A	GV	705'	150°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-90D	GV	711'	141°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-90E	GV	711'	137°	51	1	1	1	009	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-90F	GV	711'	133°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-48A	GV	705'	157°	51	1	1	1	009	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	704' - 719'	180° to 270°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-6 (CRD Hatch)	GV	718'	216°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-10	GV	714'	209°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-13A	GV	710'	199°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-17	GV	710'	247°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-23	GV	709'	186°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-24	GV	709'	183°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-25	GV	710'	236°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-50A	GV	705'	215°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-72A	GV	704'	229°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-72B	GV	704'	231°	52	1	1	1	009	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	704' - 719'	270° to 360°	53	1	1	1	009	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI	Qty.	Sch.	1st Period	12 RIO Report #	WG #	Insp Procedure
								12 RIO			
	X-30A	GV	710'	322°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-33A	GV	708'	327°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-49A	GV	704'	327°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-51A	GV	704'	324°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-52A	GV	708'	323°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-90A	GV	711'	328°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-90B	GV	711'	332°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-90C	GV	711'	336°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-100G	GV	711'	313°	53	1	1	1	009	345566	NDE-VT 003 Rev 1
	X-104E	GV	706'	348°	53	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-104G	GV	711'	353°	53	1	1	1	010	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	719' - 738'	0° to 90°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-8	GV	731'	0°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-21	GV	734'	40°	54	1	1	1	010	345566	NDE-VT 003 Rev 1



UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty	Sch.	1st Period	12 RIO Report # 9902XXX	WG #	Insp Procedure
								12 RIO			
	X-22	GV	734'	43°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-27B	GV	726'	61°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-28B	GV	729'	61°	54	1	1	1	010	345566	NDE-VT 003 Rev 0
	X-29B	GV	732'	61°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40E	GV	729'	77°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40F	GV	729'	73°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40G	GV	729'	69°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40H	GV	729'	65°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-44	GV	726'	12°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-46	GV	727'	0°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-48B	GV	732'	65°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-53	GV	736'	39°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-54	GV	736'	51°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-58B	GV	735'	65°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-60B	GV	735'	61°	54	1	1	1	010	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-61B	GV	726'	65°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-62B	GV	726'	69°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-63B	GV	726'	73°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-64B	GV	726'	77°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-87	GV	734'	46°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-91B	GV	732'	57°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-92	GV	735'	57°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-94	GV	734'	37°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-37D	GV	735'	78°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-38D	GV	735'	78°	54	1	1	1	010	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	719' - 738'	90° to 180°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-31B	GV	726'	162°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-80A	GV	726'	159°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-80B	GV	726'	156°	55	1	1	1	010	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-80C	GV	726'	153°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-86A	GV	735'	115°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-86B	GV	735'	112°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-88A	GV	721'	114°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-91A	GV	726'	165°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-37B	GV	735'	102°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-38B	GV	735'	102°	55	1	1	1	010	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	719' - 738'	180° to 270°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-5	GV	724'	239°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-27A	GV	732'	239°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-31A	GV	732'	228°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40A	GV	730'	243°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40B	GV	729'	248°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-40C	GV	735'	243°	56	1	1	1	010	345566	NDE-VT 003 Rev 1

UNIT , - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-40D	GV	732'	243°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-55	GV	736'	223°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-56	GV	736'	219°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-58A	GV	735'	228°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-61A	GV	726'	243°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-62A	GV	726'	248°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-63A	GV	726'	253°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-64A	GV	729'	253°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-37A	GV	735'	258°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-38A	GV	735'	258°	56	1	1	1	010	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	719' - 738'	270° to 360°	57	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-60A	GV	726'	294°	57	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-85A	GV	736'	319°	57	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-85B	GV	736'	322°	57	1	1	1	010	345566	NDE-VT 003 Rev 1

UNIT . - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO	9902XXX		
	X-88B	GV	721'	295°	57	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-37C	GV	735'	282°	57	1	1	1	010	345566	NDE-VT 003 Rev 1
	X-38C	GV	735'	282°	57	1	1	1	010	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	738' - 752'	0° to 90°	58	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-7A	GV	740'	0° +3	58	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-7B	GV	740'	0° +11	58	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-7D	GV	740'	0° -3	61	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-7C	GV	740'	0° -10	61	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-14	GV	750'	57°	58	1	1	1	011	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	738' - 752'	90° to 180°	59	1	1	1	011	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	738' - 752'	180° to 270°	60	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-28A	GV	739'	248°	60	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-29A	GV	739'	243°	60	1	1	1	011	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CIST	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-36	GV	750'	190°	60	1	1	1	011	345566	NDE-VT 003 Rev 1
	X-42	GV	750'	180°	60	1	1	1	011	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	738' - 752'	270° to 360°	61	1	1	1	011	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	752' - 767'	0° to 90°	62	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-9B	GV	753'	0° +3	62	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-16B	GV	763'	0° +3	62	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-20	GV	763'	21°	62	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-39B	GV	763'	0° +6	62	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-45	GV	763'	90° -3	62	1	1	1	012	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	752' - 767'	90° to 180°	63	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-3B	GV	757'	116°	63	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-3D	GV	756'	112°	63	1	1	1	012	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	752' - 767'	180° to 270°	64	1	1	1	012	345566	NDE-VT 003 Rev 1

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-3A	GV	756'	248°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-3C	GV	756'	256°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-32B	GV	757'	232°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-39A	GV	753'	195°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-41	GV	754'	186°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-47	GV	757'	192°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-57	GV	755'	190°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-66B	GV	757'	228°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-81B	GV	756'	236°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-82B	GV	756'	240°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-84B	GV	756'	244°	64	1	1	1	012	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	752' - 767'	270° to 360°	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-32A	GV	756'	309°	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-66A	GV	756'	305°	65	1	1	1	012	345566	NDE-VT 003 Rev 1

UNIT , -12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CIST	Qty	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-81A	GV	756'	293°	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-82A	GV	756'	297°	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-84A	GV	756'	301°	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-9A	GV	753'	0° -3	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	X-16A	GV	763'	0° -2	65	1	1	1	012	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	767' - 779'	0° to 90°	66	1	1		013	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	767' - 779'	90° to 180°	67	1	1	1	013	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	767' - 779'	180° to 270°	68	1	1		013	345566	NDE-VT 003 Rev 1
	X-59B	GV	775'	228°	68	1	1	1	013	345566	NDE-VT 003 Rev 1
	X-65B	GV	768'	228°	68	1	1	1	013	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	767' - 779'	270° to 360°	69	1	1	1	013	345566	NDE-VT 003 Rev 1
	X-26	GV	772'	78°	69	1	1	1	013	345566	NDE-VT 003 Rev 1
	X-59A	GV	775'	305°	69	1	1	1	013	345566	NDE-VT 003 Rev 1



Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	X-65A	GV	768'	305°	69	1	1	1	013	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	779' - 791'	0° to 90°	70	1	1	1	014	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	779' - 791'	90° to 180°	71	1	1	1	014	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	779' - 791'	180° to 270°	72	1	1	1	014	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	779' - 791'	270° to 360°	73	1	1	1	014	345566	NDE-VT 003 Rev 1
						.					
	Drywell Interior	GV	791' - 794'	0° to 90°	74	1	1	1	015	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	791' - 794'	90° to 180°	75	1	1	1	015	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	791' - 794'	180° to 270°	76	1	1	1	015	345566	NDE-VT 003 Rev 1
	Drywell Interior	GV	791' - 794'	270° to 360°	77	1	1	1	015	345566	NDE-VT 003 Rev 1
						.					
	Examination Category: E-A, Containment Surfaces										
	E1.10 Containment Vessel Pressure Retaining Boundary										
	E1.11 Accessible Surface Areas										
	Suppression Chamber - Interior										

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
Note: GV Examinations are not required below the water line (672')											
	Suppression Chamber Interior Floor	VT-3	648'	0° to 90°		1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior Floor	VT-3	648'	90° to 180°		1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior Floor	VT-3	648'	180° to 270°		1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior Floor	VT-3	648'	270° to 360°		1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior	VT-3	648'-672'	0° to 90°	104	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-206B	VT-3	659'	62°	104	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-234B	VT-3	666'	70°	104	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-235B	VT-3	653'	44°	104	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-236	VT-3	659'	49°	104	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior	VT-3	648'-672'	90° to 180°	105	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-203B	VT-3	659'	161°	105	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-203D	VT-3	659'	139°	105	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-209	VT-3	659'	101°	105	1	1	1	UCC	345325	NDE-VT-008 Rev 0

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. C/SI	Qty.	Sch.	1st Period	12 RIO Report #	WG #	Insp Procedure
								12 RIO	9902XXX		
	X-214	VT-3	659'	129°	105	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior	VT-3	648'-672'	180° to 270°	106	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-203A	VT-3	659'	221°	106	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-203C	VT-3	659'	199°	106	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior	VT-3	648'-672'	270° to 360°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-206A	VT-3	659'	297°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-219B	VT-3	666'	286°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-222	VT-3	657'	307°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-232B	VT-3	653'	280°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-237	VT-3	659'	311°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-243	VT-3	646'	276°	107	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	Suppression Chamber Interior	GV	672' - 683'	0° to 90°	108	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-208B	GV	673'	49°	108	1	1	1	UCC	345325	NDE-VT-008 Rev 0
	X-212	GV	673'	56°	108	1	1	1	UCC	345325	NDE-VT-008 Rev 0

UNIT : 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. Cisl.	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO	9902XXX		
	X-220B	GV	674'	44°	108	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-224	GV	677'	77°	108	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-229B	GV	673'	63°	108	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-234A	GV	674'	70°	108	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-238B	GV	674'	52°	108	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	Suppression Chamber Interior	GV	672' - 683'	90° to 180°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-210	GV	674'	109°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-211	GV	677'	94°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-213	GV	673'	99°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-215	GV	674'	129°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-216	GV	677'	124°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-217	GV	673'	122°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-225	GV	677'	139°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-226B	GV	673'	153°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO			
	X-228D	GV	673'	102°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-244	GV	677'	112°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-245	GV	673'	120°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-246B	GV	674'	167°	109	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	Suppression Chamber Interior	GV	672'-683'	180° - 270°	110	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-246A	GV	674'	194°	110	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-226A	GV	673'	206°	110	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-228C	GV	673'	235°	110	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	Suppression Chamber Interior	GV	672'-683'	270° - 360°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-231A	GV	673'	276°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-231B	GV	673'	282°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-230A	GV	673'	291°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-229A	GV	673'	294°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-208A	GV	673'	311°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-238A	GV	674'	337°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0

Item	Description	Exam Type	Exam Elev	Az.	Dwg. Cisl-	Qty.	Sch.	1st Period	12 RIO Report #	WO #	Insp Procedure
								12 RIO			
	X-220A	GV	674'	326°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
	X-219A	GV	674'	286°	111	1	1	1	UCC	345325	NDE-VT 008 Rev 0
Examination Category: E-A, Containment Surfaces											
E1.10 Containment Vessel Pressure Retaining Boundary											
E1.20 Vent System Accessible Surface Areas											
	Suppression Chamber Interior										
		VT-3	660'-672'	0°-90°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				90°-180°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				180°-270°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				270°-360°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
		VT-3	672'-683'	0°-90°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				90°-180°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				180°-270°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				270°-360°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
		VT-3	683'-700'	0°-90°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				90°-180°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				180°-270°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
				270°-360°	020/021A	1	1	1	UCC	345325	NDE-VT 008 Rev 0
Examination Category: E-G, Pressure Retaining Bolting											
E8.20 Bolted Connections											
	Personnel Hatch (X-2)	VT-1	724'	134°	003A-L	1	1		016	345572	NDE-VT-001 Rev 1
	Equipment Hatch(X-1)	VT-1	724'	315°	004-A-B	1	1		022	345572	NDE-VT-001 Rev 1
Examination Category: L-A, Containment Surfaces											
L1.10 Concrete Surfaces											
L1.11 Accessible Concrete Surfaces and Coated Areas											
	Drywell - Exterior										

UNIT 1 - 12<sup>th</sup> RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. Cisl.	Qty.	Sch.	1st Period	12 RIO Report # 9902XXX	WO #	Insp Procedure
								12 RIO			
	Concrete Surface	VT-3C	704' - 719'	0° - 90°	30	1	1	1	017	345565	NDE-VT 003 Rev 1
				90° - 180°	31	1	1	1	017	345565	NDE-VT 003 Rev 1
				180° - 270°	32	1	1	1	017	345565	NDE-VT 003 Rev 1
				270° - 360°	33	1	1	1	017	345565	NDE-VT 003 Rev 1
								1			
		VT-3C	719' - 749'	0° - 90°	34	1	1	1	018	345565	NDE-VT 003 Rev 1
				90° - 180°	35	1	1	1	018	345565	NDE-VT 003 Rev 1
				180° - 270°	36	1	1	1	018	345565	NDE-VT 003 Rev 1
				270° - 360°	37	1	1	1	018	345565	NDE-VT 003 Rev 1
		VT-3C	749' - 779'	0° - 90°	38	1	1	1	019	345565	NDE-VT 003 Rev 1
				90° - 180°	39	1	1	1	019	345565	NDE-VT 003 Rev 1
				180° - 270°	40	1	1	1	019	345565	NDE-VT 003 Rev 1
				270° - 360°	41	1	1	1	019	345565	NDE-VT 003 Rev 1



# APPENDIX G

## CORRECTIONS

No corrections to previous ISI Outage Summary Reports were made.