

Paul A. Harden
Site Vice President724-682-5234
Fax: 724-643-8069August 8, 2012
L-12-206ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001SUBJECT:
Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
Twenty-First Refueling Outage Inservice Inspection Report

Enclosed please find the Inservice Inspection (ISI) Summary Report on American Society of Mechanical Engineers (ASME) Class 1, 2, 3, and Subsections IWE and IWL examinations performed prior to and during the twenty-first refueling outage at Beaver Valley Power Station Unit No. 1 (BVPS-1). The ASME Boiler and Pressure Vessel Code, Section XI, Article IWA-6240 requires an inservice inspection summary report to be submitted to the enforcement and regulatory authorities having jurisdiction at the plant site within ninety days after completion of each refueling outage. The recent inservice inspection term at BVPS-1 covered the period from November 6, 2010 to May 11, 2012.

The Class 1, 2, 3, and Subsections IWE and IWL examinations are part of Interval 4, Period 2 of the BVPS-1 ISI schedule, and were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 2001 Edition, 2003 Addenda.

There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Phil H. Lashley, Supervisor – Fleet Licensing, at 330-315-6808.

Sincerely,


Paul A. HardenA047
MRR

Beaver Valley Power Station, Unit No. 1
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Enclosure:

FirstEnergy Nuclear Operating Company, Beaver Valley Power Station, Unit No. 1,
Twenty-First Refueling Outage Inservice Inspection Report

cc: NRC Region I Administrator
NRC Resident Inspector
NRR Project Manager
Director BRP/DEP
Site BRP/DEP Representative

**FirstEnergy Nuclear Operating Company
Beaver Valley Power Station, Unit No. 1
Twenty-First Refueling Outage Inservice Inspection Report**

90-DAY REPORT
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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner FirstEnergy Nuclear Operating Company, Route 168, Shippingport, PA 15077
(Name and Address of Owner)
2. Plant Beaver Valley Power Station, Route 168, Shippingport, PA 15077
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 9/30/76 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	69103	105642B	21011
Pressurizer	Westinghouse	1311	434676V	68-50
1A Steam Generator	Westinghouse	NP030651/1MB2	591601V	82
1B Steam Generator	Westinghouse	NP030651/2MB2	591602V	83
1C Steam Generator	Westinghouse	NP030651/3MB2	591603V	84
Boron Injection Tank	Struthers Wells	SI-TK-2	434783V	133314
Outside Recirc Spray Pump (RS-P-2A)	Bingham Willamette	2900596	N/A	N/A
RHR Heat Exchanger RH-E-1A	Joseph Oat	1832-1	434682V	368
RHR Heat Exchanger RH-E-1B	Joseph Oat	1832-2	434683V	369
Reactor Coolant Piping	Southwest Fabricating	N/A	N/A	N/A
Auxiliary Piping	Schneider Power	N/A	N/A	N/A
Component Supports	Various	N/A	N/A	N/A
Containment	N/A	N/A	4630	N/A

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

This form (E0029) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07008-2300

FORM NIS-1 (Back)

8. Examination Dates 11/6/2010 to 5/11/2012
9. Inspection Period Identification: 8/2/2011 to 12/2/2014 (2nd Inspection Period of 4th Interval)
10. Inspection Interval Identification: 4/1/2008 to 3/31/2018 (4th 10-yr Inspection Interval)
11. Applicable Edition of Section XI 2001 Addenda 2003
12. Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 12
13. Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I (Code Exams) for exams performed during 1R21. 1R21 was the first outage in the 2nd Period of the 4th Ten-Year Interval. Any remaining 2nd Period ASME XI examination percentage requirements will be fulfilled during the next refueling outage (1R22), which is schedule prior to the end of the 2nd 40-Month Period.
14. Abstract of Results of Examination and Tests. See text of summary report.
15. Abstract of Corrective Measures. Corrective measures were required based on an UNSAT PT exam preformed on a support plate weld attached to the outside recirculation spray pump (RS-P-2A) casing. The indication was removed by grinding and rewelding was necessary. Re-examination of the weld following the welding was SAT. Boric Acid accumulations reported during the outage were evaluated and resolved based on the Boric Acid Program requirements. All of the reported containment liner deficiencies were documented and resolved in the corrective action program. None of the reported deficiencies challenged the structural integrity of the containment liner. No liner plate repairs were necessary; only repainting/recaulking. Finally, a visual examination on Support SI-A-2-11 reported a loose anchor bolt. This condition was evaluated to be acceptable based on an engineering evaluation.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
 Date 7-16-12 Signed FirstEnergy Nuclear Operating Co. By [Signature]
 (Owner)

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ~~CF~~ GS of Connecticut have inspected the components described in this Owner's Report during the period 11/6/2010 to 5/11/2012 and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

[Signature]
 Inspector's Signature

Commissions NB 9428 ANIB, PA 2384
 National Board, State, Province and Endorsements

Date 7-18-12

OUTAGE SUMMARY

During the Twenty-first Refueling Outage (1R21) at the Beaver Valley Power Station, Unit 1, Inservice Inspection (ISI) examinations were performed on Class 1, 2, 3 and the containment liner components. This was the first outage in the second period of the fourth ten year interval.

ASME XI Class 1, 2, 3 and IWE/IWL Credited Exams (See Appendix I)

1. One-hundred, six (106) Class 1 exams were performed and are divided as follows:
 - a. Welds (vessels, piping, and attachments)

Ultrasonic Exams	-	9
Visual Exams	-	3
 - b. Class 1 bolting

Visual Exams	-	40
Ultrasonic Exams	-	19 (single item in App 1)
 - c. Visual Examinations (VT-3)

Pipe Supports	-	17
Component Supports	-	7
 - d. RI-ISI piping VT-2 Exams - 11
2. One-hundred, fifty-six (156) Class 2 exams were performed and are divided as follows:
 - a. Welds (vessels, pumps, piping, and attachments)

Ultrasonic Exams	-	54
Surface Exams	-	18
Visual Exams	-	16
 - b. Class 2 bolting

Visual Exams	-	5
Ultrasonic Exams	-	5
 - c. Visual Examinations (VT-3)

Pipe Supports	-	33
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 - d. RI-ISI piping VT-2 exams - 25
3. Forty-two (42) visual exams of Class 3 components were performed and are divided as follows:
 - a. Supports, visual exams - 31
 - b. Attachments, visual exam - 11
4. Forty-four (44) IWE/IWL exams were performed as follows:
 - a. Liner - 1 (General Visual)
 - b. Moisture Barrier - 1 (General Visual)
 - c. Previous liner repair - 1 (UTT)
 - d. Penetration bolting - 3 (General Visual)
 - e. Random liner exams - 37 (UTT)
 - f. Containment Concrete - 1 (General Visual)

Examinations were performed by FirstEnergy Nuclear Operating Company (FENOC) NDE Technicians, supplemented with contracted NDE technicians from IDDEAL Concepts, Integrated Technologies, Inc. (iTi), and Wesdyne. Appendix I compiles the examinations that have been credited toward fulfilling the Ten Year Plan requirements.

IWE Examinations

The 1R21 IWE examination included a general visual of the accessible areas of the liner plate, penetrations, and moisture barrier. All of the reported liner deficiencies were documented and resolved in the corrective action program. None of the reported deficiencies challenged the structural integrity of the containment liner. No liner plate repairs were necessary; only repainting/recaulking.

According to licensing renewal commitments, UT thickness examinations were performed on the BV1 containment liner. Thirty-seven (37) random locations were completed. There was no evidence of material loss in any of these examinations. A summary report of these examinations, separate from this report, has been submitted to the NRC.

Pressure Testing

The Class 1 piping System Leakage Test was performed prior to plant start-up from 1R21. All Class 1 and 2 bolted connections associated with insulated components were examined during 1R21. Also, Class 2 and 3 system functional and system inservice tests were performed in accordance with 40-month pressure testing requirements.

Deficiency Resolution

The deficiency associated with the 1R21 PT examination of RS-P-2A-A-7 was documented and resolved on Condition Report 2012-05900. The indication was completely removed by grinding. Subsequent repair welding was necessary. A final PT examination was SAT. A required additional examination on a similar weld was scheduled and completed satisfactorily during 1R21.

A visual examination of Support SI-A-2-11 reported a loose anchor bolt. This condition was evaluated by engineering and found to be acceptable as is. The support has been scheduled for three successive examinations.

The conditions identified during examinations on the containment liner and concrete were evaluated and resolved on Condition Reports 2012-04781, 2012-05746 and 2012-07013. All of the conditions reported were minor in nature and would not affect the structural integrity of the containment building.

NIS-2 Forms

Included as Appendix II are the NIS-2 Forms associated with ASME XI repairs and replacements performed since the last 90-Day ISI Summary Report.

APPENDIX I
1R21 COMPLETED CODE EXAMS

Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
012400	CH-142-PS-10	SUPPORT	1	F-A	F1.10R	VT-3	0191A-5	c
033350	CH-102	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0246A-3	B
036750	CH-103	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0247A-3	B
040050	CH-104	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0248A-3	B
059000	DG-56-PS-1	SUPPORT	1	F-A	F1.10S	VT-3	0357A-5	c
060400	DG-56-PS-3	SUPPORT	1	F-A	F1.10R	VT-3	0357A-5	c
062600	DG-52-PS-3	SUPPORT	1	F-A	F1.10R	VT-3	0358A-5	c
065100	DG-47-PS-4	SUPPORT	1	F-A	F1.10R	VT-3	0359A-5	c
072400	RC-71-LST-10	SUPPORT	1	F-A	F1.10L	VT-3	0348A-2	c
072800	RC-71-R-24	SUPPORT	1	F-A	F1.10R	VT-3	0348A-2	c
073500	RC-71-LST-7	SUPPORT	1	F-A	F1.10L	VT-3	0348A-2	c
076700	RC-71-A-17	SUPPORT	1	F-A	F1.10A	VT-3	0348B-2	c
078650	RC-055	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0348B-2	B
085200	RC-72-4E-S-03	BUTT WELD	1	R-A	R1.11	UT	0348D-1	c
085450	RC-056	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0348D-1	B
086400	RC-72-R-9	SUPPORT	1	F-A	F1.10R	VT-3	0348D-1	c
097000	RC-98-SH-51	SUPPORT	1	F-A	F1.10S	VT-3	0350B-3	c
100010	BC-MOV-1RH-700	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	074A-3	B
100012	BC-FE-1RC-480	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0354A-1	B
100013	BC-FE-1RC-481	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0354B-1	B
100014	BC-FE-1RC-482	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0354C-1	B
100015	BC-MOV-1RC-590	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	L-001A-5	B
100016	BC-MOV-1RC-591	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	L-001A-5	B
100017	BC-MOV-1RC-592	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	L-002A-5	B
100018	BC-MOV-1RC-593	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	L-002A-5	B
100019	BC-MOV-1RC-594	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	L-003A-5	B
100020	BC-MOV-1RC-595	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	L-003A-5	B
100021	BC-1SI-20	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0222B-5	B
100022	BC-1SI-21	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0220C-5	B
100023	BC-1SI-22	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0223B-5	B
100024	BC-1SI-23	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0375E-5	B
100025	BC-1SI-24	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0375F-7	B
100026	BC-1SI-25	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0375C-5	B
100030	BC-LCV-1CH-460A	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0242A-3	B
100031	BC-LCV-1CH-460B	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0242A-3	B
100032	BC-1CH-32	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0253A-4	B

APPENDIX I
1R21 COMPLETED CODE EXAMS

Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
100033	BC-RC-E-1A-Pri Manways	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	E-001N	B
100034	BC-RC-E-1B-Pri Manways	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	E-001N	B
100035	BC-RC-E-1C-Pri Manways	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	E-001N	B
100038	BC-1SI-51	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0106A-5	B
100039	BC-1SI-52	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0107B-3	B
100040	BC-1SI-53	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0108B-5	B
100052	BC-RV-1RC-551A	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350B-3	B
100053	BC-RV-1RC-551B	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350B-3	B
100054	BC-RV-1RC-551C	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350B-3	B
100055	BC-MOV-1RC-535	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350A-3	B
100056	BC-MOV-1RC-536	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350A-3	B
100057	BC-MOV-1RC-537	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350A-3	B
100058	BC-PCV-1RC-456	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350A-3	B
100059	BC-PCV-1RC-455C	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350A-3	B
100060	BC-PCV-1RC-455D	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	0350A-3	B
100061	BC-PZR Manway bolts	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	E-001P-3	B
100062	BC-RV Main Flg Bolts	BOLTED CONNECTION	1	Boltcon	Bolt1	VT-2	E-001L-1	B
100082	BC-CH-E-4	BOLTED CONNECTION	2	Boltcon	Bolt2	VT-2	E-003D-2	B
100084	BC-HCV-1CH-389	BOLTED CONNECTION	2	Boltcon	Bolt2	VT-2	0380A-2	B
100110	BC-TV-1CH-200A	BOLTED CONNECTION	2	Boltcon	Bolt2	VT-2	1254A-4	B
100111	BC-TV-1CH-200B	BOLTED CONNECTION	2	Boltcon	Bolt2	VT-2	1254A-4	B
100112	BC-TV-1CH-200C	BOLTED CONNECTION	2	Boltcon	Bolt2	VT-2	1254A-4	B
109011	1RN-001	RANDOM LINER 1	MC	IWE	E4.12	UTT	Plate C16	c
109012	1RN-002	RANDOM LINER 2	MC	IWE	E4.12	UTT	Plate D9	c
109013	1RN-003	RANDOM LINER 3	MC	IWE	E4.12	UTT	Plate E2	c
109014	1RN-004	RANDOM LINER 4	MC	IWE	E4.12	UTT	Plate E3	c
109015	1RN-005	RANDOM LINER 5	MC	IWE	E4.12	UTT	Plate E7	c
109016	1RN-006	RANDOM LINER 6	MC	IWE	E4.12	UTT	Plate E9	c
109017	1RN-007	RANDOM LINER 7	MC	IWE	E4.12	UTT	Plate F16	c
109018	1RN-008	RANDOM LINER 8	MC	IWE	E4.12	UTT	Plate G15	c
109019	1RN-009	RANDOM LINER 9	MC	IWE	E4.12	UTT	Plate G15	c
109020	1RN-010	RANDOM LINER 10	MC	IWE	E4.12	UTT	Plate H1	c
109021	1RN-011	RANDOM LINER 11	MC	IWE	E4.12	UTT	Plate H3	c
109022	1RN-012	RANDOM LINER 12	MC	IWE	E4.12	UTT	Plate H5	c
109023	1RN-013	RANDOM LINER 13	MC	IWE	E4.12	UTT	Plate H19	c
109024	1RN-014	RANDOM LINER 14	MC	IWE	E4.12	UTT	Plate I10	c

APPENDIX I
1R21 COMPLETED CODE EXAMS

Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
109025	1RN-015	RANDOM LINER 15	MC	IWE	E4.12	UTT	Plate I12	c
109026	1RN-016	RANDOM LINER 16	MC	IWE	E4.12	UTT	Plate I16	c
109027	1RN-017	RANDOM LINER 17	MC	IWE	E4.12	UTT	Plate I17	c
109028	1RN-018	RANDOM LINER 18	MC	IWE	E4.12	UTT	Plate I18	c
109029	1RN-019	RANDOM LINER 19	MC	IWE	E4.12	UTT	Plate I18	c
109031	1RN-021	RANDOM LINER 21	MC	IWE	E4.12	UTT	Plate J12	c
109032	1RN-022	RANDOM LINER 22	MC	IWE	E4.12	UTT	Plate J13	c
109033	1RN-023	RANDOM LINER 23	MC	IWE	E4.12	UTT	Plate J14	c
109034	1RN-024	RANDOM LINER 24	MC	IWE	E4.12	UTT	Plate K3	c
109037	1RN-027	RANDOM LINER 27	MC	IWE	E4.12	UTT	Plate K12	c
109038	1RN-028	RANDOM LINER 28	MC	IWE	E4.12	UTT	Plate K19	c
109042	1RN-032	RANDOM LINER 32	MC	IWE	E4.12	UTT	Plate M1	c
109043	1RN-033	RANDOM LINER 33	MC	IWE	E4.12	UTT	Plate M1	c
109045	1RN-035	RANDOM LINER 35	MC	IWE	E4.12	UTT	Plate N7	c
109048	1RN-038	RANDOM LINER 38	MC	IWE	E4.12	UTT	Plate N8	c
109053	1RN-043	RANDOM LINER 43	MC	IWE	E4.12	UTT	Plate P1	c
109054	1RN-044	RANDOM LINER 44	MC	IWE	E4.12	UTT	Plate P11	c
109055	1RN-045	RANDOM LINER 45	MC	IWE	E4.12	UTT	Plate Q7	c
109056	1RN-046	RANDOM LINER 46	MC	IWE	E4.12	UTT	Plate Q7	c
109059	1RN-049	RANDOM LINER 49	MC	IWE	E4.12	UTT	Plate Q10	c
109061	1RN-051	RANDOM LINER 51	MC	IWE	E4.12	UTT	Plate Q12	c
109071	1RN-061	RANDOM LINER 61	MC	IWE	E4.12	UTT	Plate T4	c
109076	1RN-066	RANDOM LINER 66	MC	IWE	E4.12	UTT	Plate U10	c
130950	RC-026	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0354A-1	B
133050	RC-027	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0354B-1	B
135050	RC-028	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0354C-1	B
146900	RC-39-SH-5	SUPPORT	1	F-A	F1.10S	VT-3	0999C-3	c
151600	RC-R-1-CRDM-WS-E	CRDM SEISMIC SUPPORT "E"	1	F-A	F1.40E	VT-3	E-001A-3	c
151700	RC-R-1-CRDM-WS-A	CRDM SEISMIC SUPPORT "A"	1	F-A	F1.40E	VT-3	E-001A-3	c
151800	RC-R-1-CRDM-WS-B	CRDM SEISMIC SUPPORT "B"	1	F-A	F1.40E	VT-3	E-001A-3	c
151900	RC-R-1-CRDM-WS-F	CRDM SEISMIC SUPPORT "F"	1	F-A	F1.40E	VT-3	E-001A-3	c
152000	RC-R-1-CRDM-WS-C	CRDM SEISMIC SUPPORT "C"	1	F-A	F1.40E	VT-3	E-001A-3	c
152100	RC-R-1-CRDM-WS-D	CRDM SEISMIC SUPPORT "D"	1	F-A	F1.40E	VT-3	E-001A-3	c
163650	RC-R-1-STUD-20 TO 38	BOLTING	1	B-G-1	B6.20	UT	E-001L-1	c
169450	RC-R-1-NUT-20 TO 38	BOLTING	1	B-G-1	B6.10	VT-1	E-001L-1	c
175250	RC-R-1-WASHER-20 TO 38	BOLTING	1	B-G-1	B6.50	VT-1	E-001L-1	c

APPENDIX I
1R21 COMPLETED CODE EXAMS

Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
182600	RC-E-1A-RADIUS(1H)	NOZZLE INSIDE RADIUS	1	B-D	B3.140	VT-1	E-001M-3	c
182700	RC-E-1A-RADIUS(1C)	NOZZLE INSIDE RADIUS	1	B-D	B3.140	VT-1	E-001M-3	c
184500	RC-E-1B-BH-1 TO 16	BOLTING	1	B-G-2	B7.30	VT-1	E-001M-3	c
186140	RC-E-1B-N-11	NOZZLE TO SAFE END (HOT LEG)	1	R-A	R1.11	UT	E-001M-3	L
186300	RC-E-1B-BC-1 TO 16	BOLTING	1	B-G-2	B7.30	VT-1	E-001M-3	c
193100	RC-TK-1-RADIUS-6	NOZZLE INSIDE RADIUS	1	B-D	B3.120	VT-2	E-001P-3	B
261200	DLW-LOOP2-6-F-21	BUTT WELD	1	R-A	R1.11	UT	L-002A-5	L
261500	DLW-LOOP2-6-F-22	BUTT WELD	1	R-A	R1.11	UT	L-002A-5	L
273900	RH-23-SH-11F	VALVE SUPPORT	1	F-A	F1.40X	VT-3	0107A-4	c
285400	SI-121-R-7	SUPPORT	1	F-A	F1.10R	VT-3	0106A-5	c
286700	SI-121-DS-1	SUPPORT	1	F-A	F1.10D	VT-3	0106A-5	c
287600	SI-101-DS-1	SUPPORT	1	F-A	F1.10D	VT-3	0107A-4	c
292000	SI-101-5-S-05	BUTT WELD	1	R-A	R1.11	UT	0107B-3	c
309400	SI-29-9-S-02	BUTT WELD	1	R-A	R1.11	UT	0220C-5	c
318800	SI-74-3-F-04	BUTT WELD	1	R-A	R1.11	UT	0375C-5	c
319200	SI-74-4-HSS-420	SNUBBER	1	F-A	F1.10N	VT-3	0375C-5	c
319400	SI-74-4-HSS-421	SNUBBER	1	F-A	F1.10N	VT-3	0375C-5	c
320250	SI-047B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0375C-5	B
324350	SI-045B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0375E-5	B
327300	SI-73-5-F-06	BUTT WELD	1	R-A	R1.11	UT	0375F-7	c
328550	SI-046B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0375F-7	B
330800	SI-73-8-S-01	BUTT WELD	1	R-A	R1.11	UT	0375F-7	c
370500	WFPD-23-1-F-03	PIPE WELD	2	R-A	R1.11	UT	0062B-5	c
379100	SI-44-R-33	SUPPORT	2	F-A	F1.20R	VT-3	0114A-6	c
390800	SI-81-10-S-02	PIPE WELD	2	R-A	R1.11	UT	0192A-6	c
391150	SI-056B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0192A-6	B
392000	SI-81-R-313	SUPPORT	2	F-A	F1.20R	VT-3	0192A-6	c
392300	SI-81-R-313A	SUPPORT	2	F-A	F1.20R	VT-3	0192A-6	c
392700	SI-81-R-89A	SUPPORT	2	F-A	F1.20R	VT-3	0192A-6	c
395200	SI-140-R-315	SUPPORT	2	F-A	F1.20R	VT-3	0192A-6	c
397750	SI-051A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0192A-6	B
397950	SI-051C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0192A-6	B
398100	SI-82-PS-R-10	SUPPORT	2	F-A	F1.20R	VT-3	0192A-6	c
406100	SI-85-PS-R-17	SUPPORT	2	F-A	F1.20R	VT-3	0193A-4	c
407500	SI-86-2-A-01	WELDED ATT. SUPPORT PS-1	2	C-C	C3.20	PT	0194A-3	c
407600	SI-86-PS-01	SUPPORT	2	F-A	F1.20A	VT-3	0194A-3	c

APPENDIX I
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Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
408800	SI-87-PS-02	SUPPORT	2	F-A	F1.20R	VT-3	0194A-3	c
414200	SI-87-PS-22	SUPPORT	2	F-A	F1.20R	VT-3	0194A-3	c
420150	CH-021C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	B
420250	CH-021B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	B
420700	CH-79-2B-F-1A-A	PIPE WELD	2	R-A	R1.11	UT	0265A-7	c
422650	CH-020B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	B
422750	CH-020C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	B
425050	CH-019B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	B
425250	CH-019C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	B
434750	SI-061B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0275A-3	B
436050	CH-121	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0267A-5	B
436700	CH-73-R-53	SUPPORT	2	F-A	F1.20R	VT-3	0267A-5	c
440050	CH-122	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0267A-5	B
443600	CH-71-1-S-05	PIPE WELD	2	R-A	R1.11	UT	0267A-5	c
443850	CH-123	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0267A-5	B
452800	CH-81-A-60	SUPPORT	2	F-A	F1.20A	VT-3	0267B-6	c
470350	CH-130	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0268A-5	B
496950	SI-062B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0272A-5	B
509250	CH-028	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0273A-3	B
520950	SI-058B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0273B-7	B
521900	SI-81-9C-S-13	PIPE WELD	2	R-A	R1.11	UT	0273B-7	c
573600	RS-PSSP-009	SNUBBER	2	F-A	F1.20N	VT-3	0726A-3	c
573700	RS-PSSP-010	SNUBBER	2	F-A	F1.20N	VT-3	0726A-3	c
589500	SI-TK-2-STUD-6	BOLTING	2	C-D	C4.10	UT	E-005B-5	c
589600	SI-TK-2-STUD-7	BOLTING	2	C-D	C4.10	UT	E-005B-5	c
589700	SI-TK-2-STUD-8	BOLTING	2	C-D	C4.10	UT	E-005B-5	c
589800	SI-TK-2-STUD-9	BOLTING	2	C-D	C4.10	UT	E-005B-5	c
589900	SI-TK-2-STUD-10	BOLTING	2	C-D	C4.10	UT	E-005B-5	c
598850	SI-1-6-L-40	LONGITUDINAL WELD	2	R-A	R1.11	UT	0083B-5	c
598900	SI-1-6-S-02	PIPE WELD	2	R-A	R1.11	UT	0083B-5	c
598950	SI-1-6-L-39	LONGITUDINAL WELD	2	R-A	R1.11	UT	0083B-5	c
605320	SI-1-4D-L-01	LONGITUDINAL WELD	2	R-A	R1.11	UT	0083C-6	c
605350	SI-1-4D-L-02	LONGITUDINAL WELD	2	R-A	R1.11	UT	0083C-6	c
605400	SI-1-4D-S-04	PIPE WELD	2	R-A	R1.11	UT	0083C-6	c
605420	SI-1-4D-L-03	LONGITUDINAL WELD	2	R-A	R1.11	UT	0083C-6	c
606300	SI-1-5-S-02	PIPE WELD	2	R-A	R1.11	UT	0083C-6	c

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Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
609200	SI-2-R-327	SUPPORT	2	F-A	F1.20R	VT-3	0083C-6	c
616600	SI-2-8-A-15 TO 18	WELDED ATT. SUPPORT R-17	2	C-C	C3.20	PT	0083C-6	c
616700	SI-2-R-17	SUPPORT	2	F-A	F1.20R	VT-3	0083C-6	c
617600	SI-2-A-11	SUPPORT	2	F-A	F1.20A	VT-3	0083C-6	c
622000	SI-28-SH-66	SUPPORT	2	F-A	F1.20S	VT-3	0109A-5	c
622750	SI-26-1A-L-43	LONGITUDINAL WELD	2	R-A	R1.11	UT	0109A-5	c
622800	SI-26-1A-S-02	PIPE WELD	2	R-A	R1.11	UT	0109A-5	c
622850	SI-26-1A-L-44	LONGITUDINAL WELD	2	R-A	R1.11	UT	0109A-5	c
625200	SI-18-1-S-04	PIPE WELD	2	R-A	R1.11	UT	0109A-5	c
626500	SI-15-1F-F-1D	PIPE WELD	2	R-A	R1.11	UT	0109A-5	c
650000	SI-74-1-S-02	PIPE WELD	2	R-A	R1.11	UT	0375B-3	c
651000	SI-72-R-306A	SUPPORT	2	F-A	F1.20R	VT-3	0375D-3	c
654000	SI-73-2-A-02	WELDED ATT. SUPPORT A-305	2	C-C	C3.20	PT	0375D-3	c
654100	SI-73-A-305	SUPPORT	2	F-A	F1.20A	VT-3	0375D-3	c
659500	SHP-56-3-A-15 TO 16	WELDED ATT. SUPPORT S-3	2	C-C	C3.20	MT	0001A-1	c
659600	SHP-56-S-3	SUPPORT	2	F-A	F1.20V	VT-3	0001A-1	c
665600	SHP-57-4-L-05	LONG. WELD ALONG ELBOW	2	R-A	R1.11	UT	0001B-1	c
665700	SHP-57-4-L-06	LONG. WELD ALONG ELBOW	2	R-A	R1.11	UT	0001B-1	c
665800	SHP-57-4-F-07	PIPE WELD	2	R-A	R1.11	UT	0001B-1	c
666800	SHP-58-1A-A-01	WELDED ATT. SUPPORT SH-7	2	C-C	C3.20	MT	0001C-3	c
666900	SHP-58-SH-7	SUPPORT	2	F-A	F1.20S	VT-3	0001C-3	c
675800	SHP-57-5-F-08	PIPE WELD	2	R-A	R1.11	UT	0002B-2	c
675900	SHP-57-5-S-44	LOWER SADDLE WELD (UPSTRM)	2	C-C	C3.20	MT	0002B-2	c
676000	SHP-57-5-S-49	LOWER SADDLE WELD (DNSTRM)	2	C-C	C3.20	MT	0002B-2	c
676100	SHP-57-5-S-16	UPPER SADDLE WELD (OUTER)	2	C-C	C3.20	MT	0002B-2	c
676200	SHP-57-5-S-15	UPPER SADDLE (INNER) WELD	2	C-C	C3.20	MT	0002B-2	c
676600	SHP-57-5-S-48	PIPE WELD	2	R-A	R1.11	UT	0002B-2	c
676700	SHP-57-5-S-13	INNER SADDLE / BR CONN. WELD	2	C-C	C3.20	MT	0002B-2	c
676800	SHP-57-5-S-14	OUTER SADDLE WELD	2	C-C	C3.20	MT	0002B-2	c
680000	SHP-57-5-A-01	WELDED ATT. SUPPORT SH-15	2	C-C	C3.20	MT	0002B-2	c
680100	SHP-57-SH-15	SUPPORT	2	F-A	F1.20S	VT-3	0002B-2	c
685310	SDHV-1-1-F-06	PIPE WELD	2	R-A	R1.11	UT	0006A-3	c
686100	RC-E-1A-N-9	NOZZLE-TO-VESSEL WELD	2	C-B	C2.21	UT, MT	E-001N-4	L
686200	RC-E-1A-N-9IR	NOZZLE INSIDE RADIUS	2	C-B	C2.22	UT	E-001N-4	c
689350	RC-E-1C-A-1	TRUNNION WELD	2	C-C	C3.10	MT	E-001N	c
690400	RH-18-SH-34	SUPPORT	2	F-A	F1.20S	VT-3	0074B-3	c

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Summary No	Component ID	Description	Class	Category	Item	Method	Iso	Status
690700	RH-18-R-33	SUPPORT	2	F-A	F1.20R	VT-3	0074B-3	c
696150	RH-12-1-L-15	LONGITUDINAL WELD	2	R-A	R1.11	UT	0074C-3	c
696200	RH-12-1-S-12	PIPE WELD	2	R-A	R1.11	UT	0074C-3	c
698400	RH-12-DS-5	SUPPORT	2	F-A	F1.20D	VT-3	0074C-3	c
700800	RH-8-1-S-15	PIPE WELD	2	R-A	R1.11	UT	0074C-3	c
700850	RH-8-1-L-23	LONGITUDINAL WELD	2	R-A	R1.11	UT	0074C-3	c
702050	RH-8-1-L-32	LONGITUDINAL WELD	2	R-A	R1.11	UT	0074C-3	c
702100	RH-8-1-S-01	PIPE WELD	2	R-A	R1.11	UT	0074C-3	c
707550	RH-009	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0075A-5	B
709250	RH-004	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0075A-5	B
711650	RH-13-1-F-02	PIPE WELD	2	R-A	R1.11	UT	0075B-3	B
721000	RH-16-3-HSS-121	SNUBBER	2	F-A	F1.20N	VT-3	0208A-3	c
721100	RH-16-3-HSS-122	SNUBBER	2	F-A	F1.20N	VT-3	0208A-3	c
721400	RH-E-1A-C-1	CIRCUMFERENTIAL BUTT WELD	2	C-A	C1.20	VT-2	E-004A-3	B
721500	RH-E-1A-C-2	CIRCUMFERENTIAL BUTT WELD	2	C-A	C1.10	VT-2	E-004A-3	B
721600	RH-E-1A-N-3	NOZZLE-TO-VESSEL WELD	2	C-B	C2.33	VT-2	E-004A-3	B
721700	RH-E-1A-N-4	NOZZLE-TO-VESSEL WELD	2	C-B	C2.33	VT-2	E-004A-3	B
721710	RH-E-1A-N-5	ReInf Plate to Nozzle Weld (inlet)	2	C-B	C2.31	VT-2	E-004A-3	B
721720	RH-E-1A-N-7	ReInf Plate to Vessel Weld (inlet)	2	C-B	C2.31	VT-2	E-004A-3	B
721730	RH-E-1A-N-8	ReInf Plate to Vessel Weld (outlet)	2	C-B	C2.31	VT-2	E-004A-3	B
721740	RH-E-1A-N-6	ReInf Plate to Nozzle Weld (outlet)	2	C-B	C2.31	VT-2	E-004A-3	B
722200	RH-E-1B-C-1	CIRCUMFERENTIAL BUTT WELD	2	C-A	C1.20	VT-2	E-004A-3	B
722300	RH-E-1B-C-2	CIRCUMFERENTIAL BUTT WELD	2	C-A	C1.10	VT-2	E-004A-3	B
722400	RH-E-1B-N-3	NOZZLE-TO-VESSEL WELD	2	C-B	C2.33	VT-2	E-004A-3	B
722500	RH-E-1B-N-4	NOZZLE-TO-VESSEL WELD	2	C-B	C2.33	VT-2	E-004A-3	B
722510	RH-E-1B-N-5	ReInf Plate to Nozzle Weld (inlet)	2	C-B	C2.31	VT-2	E-004A-3	B
722520	RH-E-1B-N-7	ReInf Plate to Vessel Weld (inlet)	2	C-B	C2.31	VT-2	E-004A-3	B
722530	RH-E-1B-N-8	ReInf Plate to Vessel Weld (outlet)	2	C-B	C2.31	VT-2	E-004A-3	B
722540	RH-E-1B-N-6	ReInf Plate to Nozzle Weld (outlet)	2	C-B	C2.31	VT-2	E-004A-3	B
755300	RS-25-1-F-01	PIPE WELD	2	R-A	R1.11	UT	0079B-3	c
755350	RS-25-1-L-01	LONGITUDINAL WELD	2	R-A	R1.11	UT	0079B-3	c
763600	RS-26-1-F-01	PIPE WELD	2	R-A	R1.11	UT	0080B-5	c
763650	RS-26-1-L-01	LONGITUDINAL WELD	2	R-A	R1.11	UT	0080B-5	c
764300	RS-26-R-11	SUPPORT	2	F-A	F1.20R	VT-3	0080B-5	c
792750	RS-36-1-F-01	PIPE WELD	2	R-A	R1.11	UT	0112A-3	c
800200	RS-P-2A-1	PUMP CASING WELD	2	C-G	C6.10	PT	E-007C-3	c

APPENDIX I
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Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
800400	RS-P-2A-3	PUMP CASING WELD	2	C-G	C6.10	PT	E-007C-3	c
800600	RS-P-2A-A-7	WELDED ATTACHMENT	2	C-C	C3.30	PT	E-007C-3	c
800700	RS-P-2A-A-8	WELDED ATTACHMENT	2	C-C	C3.30	PT	E-007C-3	E
804200	WAPD-1-R-19	SUPPORT	3	F-A	F1.30R	VT-3	0065A-2	c
805800	WAPD-25-PSR003	SUPPORT	3	F-A	F1.30R	VT-3	0775A-2	c
806000	WAPD-25-11-A-05	WELDED ATT. SUPPORT PSA001	3	D-A	D1.20	VT-1	0775A-2	c
806100	WAPD-25-PSA001	SUPPORT	3	F-A	F1.30A	VT-3	0775A-2	c
806400	WAPD-25-PSSH-035	SUPPORT	3	F-A	F1.30S	VT-3	0775A-2	c
809700	CC-22-R-18	SUPPORT	3	F-A	F1.30R	VT-3	0049A-1	c
812100	CC-106-R-15	SUPPORT	3	F-A	F1.30R	VT-3	0049B-2	c
812500	CC-106-R-36	SUPPORT	3	F-A	F1.30R	VT-3	0049B-2	c
817600	CC-2-R-64	SUPPORT	3	F-A	F1.30R	VT-3	0051B-1	c
820500	CC-51-6-A-01	WELDED ATT. SUPPORT R-141	3	D-A	D1.20	VT-1	0055A-1	c
820600	CC-53-R-141	SUPPORT	3	F-A	F1.30R	VT-3	0055A-1	c
821700	CC-46-R-34	SUPPORT	3	F-A	F1.30R	VT-3	0057A-1	c
823800	CC-321-R-139	SUPPORT	3	F-A	F1.30R	VT-3	0131A-2	c
824100	CC-112-RH-25	SUPPORT	3	F-A	F1.30H	VT-3	0131B-2	c
828500	CC-116-R-33C-1	SUPPORT	3	F-A	F1.30R	VT-3	0164A-3	c
847261	CC-178-R-296	SUPPORT	3	F-A	F1.30R	VT-3	0183A-4	c
855000	CC-E-1A-WS-1	SUPPORT RING	3	F-A	F1.40E	VT-3	E-010A-1	c
855100	CC-E-1A-WS-2	SUPPORT RING	3	F-A	F1.40E	VT-3	E-010A-1	c
855200	CC-E-1A-A-1	WELDED PAD FOR WS-1	3	D-A	D1.10	VT-1	E-010A-1	c
855300	CC-E-1A-A-2	WELDED PAD FOR WS-2	3	D-A	D1.10	VT-1	E-010A-1	c
856400	NS-E-1-WS-1	NEUTRON SHIELD CLR SUPPORT	3	F-A	F1.40E	VT-3	0211A-2	c
856410	NS-E-1-A-01	WELDED ATT. SUPPORT WS-1	3	D-A	D1.10	VT-1	0211A-2	c
856500	NS-E-1-A-02	WELDED ATT. SUPPORT WS-1	3	D-A	D1.10	VT-1	0211A-2	c
859600	WD-22-VS-15A	SUPPORT	3	F-A	F1.30V	VT-3	0063A-1	c
860900	WD-23-R-28	SUPPORT	3	F-A	F1.30R	VT-3	0063A-1	c
862100	WD-25-A-38	SUPPORT	3	F-A	F1.30A	VT-3	0064A-1	c
862700	FC-9-2-A-06	WELDED ATT. SUPPORT R-20	3	D-A	D1.20	VT-1	0070A-1	c
862800	FC-9-R-20	SUPPORT	3	F-A	F1.30R	VT-3	0070A-1	c
863500	FC-9-2K-A-01 TO 04	WELDED ATT. SUPPORT R-16	3	D-A	D1.20	VT-1	0070B-2	s
863600	FC-9-R-16	SUPPORT	3	F-A	F1.30R	VT-3	0070B-2	s
867900	FC-31-PSST-206	SUPPORT	3	F-A	F1.30T	VT-3	0150A-2	c
868100	FC-31-VS-206A	SUPPORT	3	F-A	F1.30V	VT-3	0150A-2	c
869500	WR-28-R-81	SUPPORT	3	F-A	F1.30R	VT-3	0066A-6	c

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Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
871000	WR-19-R-21	SUPPORT	3	F-A	F1.30R	VT-3	0067A-4	c
872600	WR-19-2-A-16 TO 17	WELDED ATT. SUPPORT R-49	3	D-A	D1.20	VT-1	0068A-3	c
872700	WR-19-R-49	SUPPORT	3	F-A	F1.30R	VT-3	0068A-3	c
874500	WR-19-6-A-05	WELDED ATT. SUPPORT SH-23	3	D-A	D1.20	VT-1	0068A-3	c
874600	WR-19-SH-23	SUPPORT	3	F-A	F1.30S	VT-3	0068A-3	c
877600	WR-17-R-17	SUPPORT	3	F-A	F1.30R	VT-3	0069A-3	c
882200	WR-20-10-A-01 TO 02	WELDED ATT. SUPPORT R-57	3	D-A	D1.20	VT-1	0128A-2	c
882300	WR-20-R-57	SUPPORT	3	F-A	F1.30R	VT-3	0128A-2	c
890500	WR-119-R-152	SUPPORT	3	F-A	F1.30R	VT-3	0229A-2	c
899020	QS-2-RH-46	SUPPORT	2	F-A	F1.20R	VT-3	0111C-3	c
900000	QS-4-14-S-02	PIPE WELD	2	R-A	R1.11	UT	0111C-3	L
900050	QS-4-14-L-72	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111C-3	c
900100	QS-4-14-S-01	PIPE WELD	2	R-A	R1.11	UT	0111C-3	c
900200	QS-4-13-S-07	PIPE WELD	2	R-A	R1.11	UT	0111C-3	L
900250	QS-4-13-L-71	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111C-3	c
900300	QS-4-13-S-06	PIPE WELD	2	R-A	R1.11	UT	0111C-3	c
900350	QS-4-13-L-69	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111C-3	c
900400	QS-4-13-S-05	PIPE WELD	2	R-A	R1.11	UT	0111C-3	c
900450	QS-4-13-L-70	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111C-3	c
901250	QS-4-13-L-68	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111C-3	c
901270	QS-4-PSST-504	SUPPORT	2	F-A	F1.20T	VT-3	0111C-3	c
901300	QS-4-13-S-03	PIPE WELD	2	R-A	R1.11	UT	0111C-3	c
901350	QS-4-13-L-67	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111C-3	c
907150	QS-1-2-L-207	LONGITUDINAL WELD	2	R-A	R1.11	UT	0113A-10	c
907200	QS-1-2-S-06	PIPE WELD	2	R-A	R1.11	UT	0113A-10	c
907210	QS-1-2-L-206	LONGITUDINAL WELD	2	R-A	R1.11	UT	0113A-10	c
909850	QS-69-PSR-254	SUPPORT	2	F-A	F1.20R	VT-3	0113B-3	c
912850	QS-3-RH-22	SUPPORT	2	F-A	F1.20S	VT-3	0113B-3	c
913870	CH-120	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0170B-3	B
914850	CH-051	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1254A-4	B
916250	CH-050A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1254A-4	B
929500	CH-095	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1518A-1	B
929600	CH-096	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1538A-1	B
929700	CH-097	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1510A-1	B
930000	1CNMT-LINER	CONTAINMENT LINER	MC	E-A	E1.11	GV		B
930010	1CNMT-LINER-AREA-3	CONTAINMENT LINER	MC	E-A	E1.11	UTT		B

APPENDIX I
1R21 COMPLETED CODE EXAMS

Summary_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
930100	1CNMT-MOISTBARR	MOISTURE BARRIER	MC	E-A	E1.30	GV		B
930200	1CNMT-BLD FLG	FUEL CANAL BLD FLG BOLTING	MC	E-A	E1.11	GV		B
930300	1CNMT-EQUHATCH	EQUIPMENT HATCH BOLTING	MC	E-A	E1.11	GV		B
930350	1CNMT-SPARE-PENE-BLTG	SPARE PENETRATION BOLTING	MC	E-A	E1.11	GV		B
930400	1CNMT-CONCRETE	CONTAINMENT CONCRETE	CC	L-A	L1.10	GV		c

APPENDIX II

REPAIR / REPLACEMENT ABSTRACT AND NIS-2 FORMS

NIS-2 ABSTRACT FOR 1R21

<u>FORM NO.</u>	<u>ASSET NUMBER</u>	<u>ORDER NO.</u>	<u>COMMENTS</u>
1719	REJ-1RW-8B	200014450	Installed
1720	REJ-1RW-8D	200014488	Installed
1721	REJ-1RW-24B	200014489	Installed
1837	1RH-P-1A	200021386	Corrected
1851	REJ-1RW-26R1	200135747	Installed
2042	REJ-1CC-16A	200253446	Installed
3082	TV-1BD-101B2	200221344	Corrected
3231	1CH-474	200283901	Installed
3335	1CC-E-1C	200416190	Corrected
3337	1MS-19	200439814	Corrected
3355	1RH-E-1B	200437287	Corrected
3356	1FW-626	200446252	Corrected
3357	OL-32	200431213	Corrected
3359	1RW-YS-47	200461291	Installed
3363	1CH-187	200204299	Installed
3363	H-121	200204299	Installed
3370	1RW-129	200427629	Corrected
3371	1RW-131	200427630	Corrected
3374	RO-1QS-100A	200440317	Installed
3376	SI-HSS-421	200434872	Installed
3378	1RS-E-1A	200441062	Corrected
3379	1RS-E-1C	200441089	Corrected
3381	1RS-E-1D	200441091	Corrected
3382	RV-1RC-551C	200440398	Installed
3388	MOV-1RW-102B1	200418386	Installed
3390	MOV-1RW-103D	200418383	Installed
3391	MOV-1RW-103C	200418381	Installed
3397	1RW-107	200439811	Installed
3398	1RW-189	200433549	Installed
3399	1RW-190	200433780	Installed
3404	1CH-190	200500271	Installed
3405	QS-85	200456590	Installed
3405	QS-PSR-001	200456590	Installed
3406	QS-86	200456591	Corrected
3406	QS-PSR-012	200456591	Corrected
3421	TV-1SS-110	200456673	Corrected
3422	TV-1MS-101A	200440208	Corrected
3472	HCV-1CH-244	200438122	Corrected
3487	1CH-84	200468740	Corrected
3494	OL-27	200481020	Corrected
3495	OL-32	200481021	Corrected
3496	1CH-2413-PSR-001	200482465	Installed
3500	1RS-P-2A-A-7	200499844	Corrected
3501	1CH-12	200500026	Corrected
3502	1CH-334	200499261	Installed
3502	1CH-337	200499261	Installed
3503	1CH-335	200498743	Installed
3503	1CH-338	200498743	Installed
3504	1SI-P-1A	200425563	Installed
3505	1CH-368	200500489	Installed
3507	LCV-1CH-460B	200500705	Corrected
3511	REJ-1RW-19C	200500951	Installed
3512	REJ-1RW-18C	200498212	Installed

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1719

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)Date 06/22/2012Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200014450

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

3. Work Performed By BVPS Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System River Water(Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case _____(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	N/A	N/A	REJ-1RW-8B	1976	Removed	No
Expansion Joint	Garlock	05-2372	N/A	REJ-1RW-8B	2005	Installed	No
Studs	Trust Manuf.	N/A	N/A	N/A	N/A	Installed	No
Nuts	Nova Machine	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Replacement of expansion joint and associated bolting.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1719

9. Remarks Previous NIS-2 Report# 727. No Code Data Reports available.. Expansion Joint PO# 45158666, Studs PO/HT#: 45351601 / 8898247 and 45372201/ 8898247. Nuts PO/ HT#: 45168676 / S66497 and 45344411 / S71132

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Scivilli Nuclear Engineer Date June 22, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Irish
Inspector's Signature

Commissions NB9428A-IB PA2384
National Board, State, Province, and Endorsements

Date 7-10-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1720

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date 06/22/2012

Sheet 1 of 1

Unit No. 1

Work Order #200014488

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System River Water (Q3)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	4-3525	N/A	REJ-1RW-8D	1995	Removed	No
Expansion Joint	Garlock	05-2372	N/A	REJ-1RW-8D	2005	Installed	No

7. Description of Work Replacement of expansion joint and assoicatted bolting.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1720

9. Remarks No Previous NIS-2 exist. No Code Data Reports Available. Expansion Joint PO# 45127436, Studs PO/HT#: 45351601 / 8898247 and 45372201/ 8898247. Nuts PO/ HT#: 45168676 / S66497 and 45344411 / S71132

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

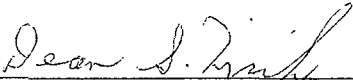
Certificate of Authorization No. N/A Expiration Date N/A

Signed J. Sciulli  Nuclear Engineer Date June 22, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions 269928 A2EB P72384
National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1721

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date July 6, 2012

Sheet 1 of 1

Unit No. 1

Work Order #200014489

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System River Water (Q3)

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	5-2299	N/A	REJ-1RW-24B	1995	Removed	No
Expansion Joint	Garlock	10-810932-01	N/A	REJ-1RW-24B	2010	Installed	No

7. Description of Work Replaced rubber expansion joint.

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

Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1721

RTL #A4.414A

9. Remarks No Code Data Reports available. Previous NIS-2 Data Report No. 728. Expansion Joint PO# 45331376
Studs PO / HT# 45380054 / MM99 and Nuts Po / HT# 47341718 / NN16

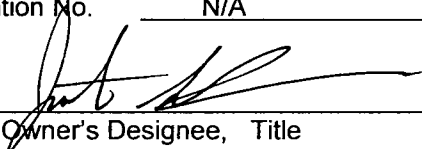
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Sciulli  Nuclear Engineer Date July 17, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1837

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS - Maintenance
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date 07/11/20012

Sheet 1 of 1

Unit No. 1

Workorder# 200021386
Repair/Replacement Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal Pump (Q2)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case _____

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s): _____

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pump	Ingersoll-Dresser	1170-20	N/A	1RH-P-1A	1976	Corrected	No
Coupling	Westinghouse	1170-20 P1A	N/A	N/A	2005	Installed	No
Studs	Nova Machine	N/A	N/A	N/A	2012	Installed	No
Cap Screws	Flowserve	N/A	N/A	N/A	2009	Installed	No
Nuts	Flowserve / Nova Machine	N/A	N/A	N/A	2012	Installed	No

7. Description of Work Retrofit RHR Pump with new coupling and replacement of pressure retaining bolting with new hardware.

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

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1837

*Record test pressure and temperature

9. Remarks Previous NIS-2 Report # 1254. No Code Data Reports Available. Coupling PO# 7052594, Studs PO/HT# 45383730 / 6T10, Screw Cap PO# 45309969, Nuts PO/HT# 45383730 / 6V61 and 45309969 / N/A.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Scivilli John Scivilli Nuclear Engineer Date July 11, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GT ²⁷⁶⁻¹² 65 of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zwick
Inspector's Signature

Commissions JB 9428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-16-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1851

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 6, 2012Sheet 1 of 1Unit No. 1Work Order #200135747

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code B31.1 19 67 Edition, S71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	43526	N/A	REJ-1RW-26R1	1994	Removed	No
Expansion Joint	Garlock	05-2861	N/A	REJ-1RW-26R1	2005	Installed	No

7. Description of Work Replaced rubber expansion joint.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 1851

RTL #A4.414A

9. Remarks No Code Data Report available. Previous NIS-2 Data Report No. 627.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed T. White  Staff Engineer Date July 6, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428ANEB PA 2384
National Board, State, Province, and Endorsements

Date 7-9-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 2042

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)

Date July 2, 2012

76 South Main Street – Akron, OH 44308
(ADDRESS)

Sheet 1 of 1

Unit No. 1

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

Work Order #200253446

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

3. Work Performed By BVPS Maintenance
(NAME)

Type Code Symbol Stamp N/A

Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Primary Component Cooling (Q3)

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	7-0429	N/A	REJ-1CC-16A	1997	Removed	No
Expansion Joint	Enertech	07-3838	N/A	REJ-1CC-16A	2007	Installed	No

7. Description of Work Replaced rubber expansion joint and flange studs/nuts.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 2042

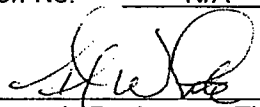
RTL #A4.414A

9. Remarks No Code Data Reports available. Previous NIS-2 Data Report No. 1041. Replacement 1-1/8" Studs:
Applicable Manufacturer's Data Reports to be attached
PO 45340508, Ht. #HH51; Nuts: PO 45339118, Ht. #4H71.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

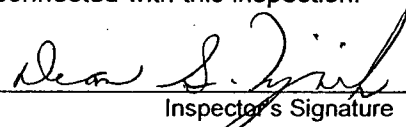
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed T. White  Staff Engineer Date July 2, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ^{on 7-2-12} GF GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 A-NIB PA 2384
National Board, State, Province, and Endorsements

Date 7-2-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3082

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Valve Team
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 5, 2012Sheet 1 of 3Unit No. 1Work Order 200221344

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Steam Generator Blowdown (Q2)5. (a) Applicable Construction Code Section III 19 80 Edition, S'80 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Gate Valve	Borg-Warner	75596	N/A	TV-1BD-101B2	1982	Corrected	Yes
Bonnet	Flowserve	89054-1	N/A	N/A	2007	Installed	Yes
Gate	Flowserve	N6439-2	N/A	N/A	2007	Installed	Yes
Retainer	Flowserve	1	N/A	Ht. #481-1	2010	Installed	No

7. Description of Work Replaced valve bonnet, gate, bonnet retainer, and studs/nuts.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3082

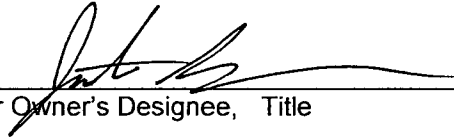
RTL #A4.414A

9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No. 1312. Valve originally purchased as
Applicable Manufacturer's Data Reports to be attached
ASME Section III but installed into an ANSI B31.1 system. Replacement 5/16" Studs: PO 45388883, Ht. #739996;
Nuts: PO 47075835, Ht. #P728.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Sciulli  Nuclear Engineer Date July 17, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

**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 Flowserve Corporation 1900 S. Saunders St. Raleigh, NC 27603
(name and address of NPT Certificate Holder)

2. Manufactured for FIRST ENERGY CORP/ACCOUNTS PAYABLE/ PO BOX 6100 JOHNSTOWN, PA 15907-6100
(name and address of purchaser)

3. Location of installation FIRST ENERGY CORPORATION/ BEAVER VALLEY NUCLEAR POWER PLANT/ SHIPPINGPORT PA. 15077
(name and address)

4. Type 434HAB6-001 R/E SA105 N/A N/A 2007
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1980 SUMMER 1980 2 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: BONNET FOR A 3" 600# GATE VALVE

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 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) <u>89054-1</u>	<u>N/A</u>	(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 _____ psi. Temp. _____ °F. Hydro. test pressure _____ 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.

FORM N-2 (Back — Pg. 2 of ²)Certificate Holder's Serial Nos. 89054-1 through N/A

CERTIFICATION OF DESIGN

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

CERTIFICATE OF COMPLIANCE

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

N-1563

NPT Certificate of Authorization No. _____ Expires 11-26-09
 Date 3/30/07 Name Flowserve Corporation Signed [Signature]
 (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 NC and employed by HSB CT
 of Hartford, CT have inspected these items described in this Data Report on 3/30/07, 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 3/30/07 Signed [Signature] Commissions NC #1421
 (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

1. Manufactured and certified by Flowserve Corporation 1900 S. Saunders St. Raleigh, NC 27603
(name and address of NPT Certificate Holder)
2. Manufactured for FIRST ENERGY CORP/ACCOUNTS PAYABLE/ PO BOX 6100 JOHNSTOWN, PA 15907-6100
(name and address of purchaser)
3. Location of installation FIRST ENERGY CORPORATION/ BEAVER VALLEY NUCLEAR POWER PLANT/ SHIPPINGPORT PA. 15077
(name and address)
4. Type 434HAB6-001 R/D SA216-WCB N/A N/A 2007
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1980 SUMMER 1980 2 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: GATE FOR A 3" 600# GATE VALVE
8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 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) <u>N6439-2</u>	<u>N/A</u>	(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 _____ psi. Temp. _____ °F. Hydro. test pressure _____ 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.

FORM N-2 (Back — Pg. 2 of ²)Certificate Holder's Serial Nos. N6439-2 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by W. L. RAMSDEN P.E. State PA Reg. no. 28975
(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) Parts
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

N-1563

NPT Certificate of Authorization No. _____ Expires 11-26-09

Date 10/4/07 Name Flowserve Corporation Signed [Signature]
(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 NC and employed by HSB CT
 of Hartford, CT have inspected these items described in this Data Report on 10/4/07, 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 10/4/07 Signed [Signature] Commissions NC #1421
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3231

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)Date 11/23/11Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200283901

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

3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 71 Edition, S'71 Addenda, — Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Wyle	N/A	N/A	1CH-474	1976	Removed	No
Check Valve	Wyle	N/A	N/A	1CH-474	2010	Installed	No

7. Description of Work Replaced valve with spare.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3231

RTL #A4.414A

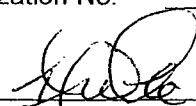
9. Remarks No Code Data Report available. Valve is submerged in the oil reservoir, and there is no way of system
Applicable Manufacturer's Data Reports to be attached
verifying leakage.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

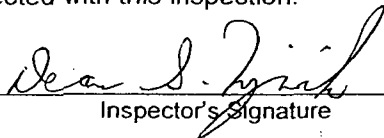
Signed T. White  Staff Specialist Date November 23, 20 11
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ET GS of Hartford, CT have inspected the components described in this 8-7-12

Owner's Report during the period 11-5-10 to 12-7-11, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 12-7-, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33351. Owner F.E.N.O.C
(NAME)Date 06/22/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 13 *23 7/12/12*Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order # 200416190

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

3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Primary Plant Component Cooling Water System (Q3)5. (a) Applicable Construction Code ASME VIII 19 68 Edition, W68 Addenda, N/A Code Case _____(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s): _____

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Henry Vogt	18651	11794	1CC-E-1C	1976	Corrected	Yes
Channel Cover	Dubose National Energy Services	N/A	N/A	1CC-E-1C	2007	Installed	No

7. Description of Work Replace end covers8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3335

*Record test pressure and temperature

9. Remarks Previous NIS-2 Reports # 419. Code Data Report available. End Cover PO / HT#: 45232289 / C7914

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Scivilli John Scivilli Nuclear Engineer Date June 22, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ²⁻¹⁰⁻¹² CT 6-5 of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zwick
Inspector's Signature

Commissions 289428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-10-, 20 12

FORM 1-1 MANUFACTURERS' DATA REPORT FOR UNFIBED PRESSURE VESSELS

Job 13063 - Bolt 3 As required by the Provisions of the ASME Code Rules Section VIII, Division 1

1. Manufactured by Barry Tool Machine Co., Louisville, Kentucky

12. Manufactured for Sto. R. Webster Real. Corp., Philippine Life Company, Shingierport, Pangasinan
(Name of Purchaser)

8. Type Motor Vessel, Kind Steamer, Vessel No. 107-10561, Natl. Bd. No. 11794, Yr. Built 1971
(Type of vessel) (Name of ship) (Hull No.) (Official Number) (Date)

Items 1-9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers. 11-19

4. SHELL: Material FA-75-70 T.S. 70000 Nominal 1 1/2 in. or less corrosion 1/2 in. Thickness 1 1/2 in. Allowance 0 in. Diam. 2 Ft. 0 in. Length 3 1/2 Ft. 0 in.

5. SEAMS: Long Double But H.T. Yes R.T. End Sectioned Yes Efficiency 85 %
(Welded, Ind. Sample, Bar, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Birth Mobile Inst H.T. Yes R.T. Spot Sectioned No No. of Courses 5

If riveted describe seams fully on reverse side of plate.

0. HEADS (a) Material			T.S.		(b) Material			T.S.	
Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	

(a)

(b)

If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. STAYBOLTS: _____ If hollow _____ Attachment _____ Pitch _____ X _____ Diam. _____
 (Material) (Size of Hole) (Threaded, Welded) (Horiz.) (Vert.) (Nominal)

8. JACKET CLOSURE: _____
(Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch)

9. Constructed for max. allowable working press. 100 psi at max. temp. 300 ° F. Min. temp. (when less than -20°) --- ° F. Hydrostatic Test Press 235 psi.

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material 304 SS Diam. 41 In. Thickness 1-1/2 In. Attachment Welded to Shell
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)

Floating. Material _____ (Kind & Spec. No.) _____ Diam. _____ in. Thickness _____ in. Attachment _____

11. TUBES: Material SA-240-Type 304-L O.D. 1/4 In. Thickness 16 ^{or Gage} Number 7-8 Type Straight
(Kind & Spec. No.) (Straight or U)

Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL Material SA-515-70 T.S. 70000 Nominal 7/16" Corrosion 1/16" COVERS ONLY
(Kind and Spec. No.) (Fig. or F.E. & Spec. Min. T.S.) Thickness In. Allowance In. Diam. 2 Ft. 3 In. Length 1 Ft. 11-3/4"

13. SEAMS: Long Double Butt H.T. Yes R.T. Spot Sectioned No Efficiency 85 %
(Welded, Bolt, Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth Double Dutt H.T. Yes R.T. --- Sectioned No No. of courses 1 each

If riveted describe seams fully on reverse side of form.

14. HEADS (a) Material _____ T.S. _____ (b) Material 515-70 T.S. 70000 (c) Material _____ T.S. _____

Location
(a) Top, bottom, ends

(b) Channel Covers 1-5/8" 37-1/2" Flat

(c) Floating

If removable, bolts used (N) Each channel bolted to tube sheet with 32 - 3/4" X 3-3/4" studs
(Material, Spec. No., P. No., Size, Quantity) SA-193-B7 - 125,000 P.S.I.

(c) Each channel cover bolted to _____ Other fastening _____

channel with 32 - 3/4" X 4-3/4" studs - SA-193-5/1 125,000 P.S.I. (Specify or Attach)

15. Constructed for max. Min. temp. (when ~~Pressure~~ Test allowable working press. ~~712.2~~ psi at max. temp. 150 °F. less than -20°) --- F. ~~Temperature~~ Press 113 psi.

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number _____ Size _____ Location _____

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
11 Water Inlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	None	Welded
11 Water Outlet	1	18"	"	"	"	"	"
11 Vent	2	3/4"	Coupling	SA-105-R	60002	"	"
Drain	1	3/4"	"	"	"	"	"
11 Gravel Water Inlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	"	"
11 Gravel Water Outlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	"	"
11 Gravel Water Inlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	"	"
11 Gravel Water Outlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	"	"
11 Gravel Water Inlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	"	"
11 Gravel Water Outlet	1	18"	Nozzle	SA-105-R	Ex. Hgt.	"	"

¹ If postweild be untreated.¹ List under tetrahedrals other internal or external pressures with coincident temperature when applicable.

(over)

18. INSPECTION Manholes, No. _____ Size _____ Location _____
 OPENINGS: Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____
 19. SUPPORTS: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
 (Type or Size) (Number) (Number) (Describe) (Where & How)

20. REMARKS: Primary Condensate Cooler - Unit No. 3
Order No. 37-47, Job Order No. 11700 Item 00-310

Thermal side of main tube sheet is clad with 304-L weld deposit 3/8" thick
increasing tube sheet thickness to 1-7/8"

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Unfired Pressure Vessels.

Date April 25, 19 72 Signed HENRY VORT MACHINE CO. By [Signature]
 (Manufacturer)

Certificate of Authorization Expires December 31, 1972 (1972)

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Henry Vort Machine Co., at Louisville, Kentucky

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province Pa. and employed by Employers Commercial Union Insurance Co. have inspected the pressure vessel described in this manufacturer's data report on April 25, 19 72, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date April 25, 19 72
[Signature] Commissions N.B.-5126
 Inspectors Signature Pennsylvania P.C.-1130
 Nat'l Board or State and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province _____ and employed by _____ of _____ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ 19 _____
 _____ Commissions _____
 Inspector's Signature _____ Nat'l Board or State and No.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3337

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS - Maintenance
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date July 2, 2012

Sheet 1 of 3

Unit No. 1

Order Nos. 200439814, 5514773

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Main Steam (Q2)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, Code Case N/A

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Enertech	11075	N/A	1MS-19	2004	Corrected	Yes
Disc	Enertech	21952	N/A	Ht. #LDH	2007	Removed	Yes
Disc	Enertech	37898	N/A	Ht. #LDH	2005	Installed	Yes

7. Description of Work Refurbished valve and replaced disc.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3337

RTL #A4.414A

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 3155. Valve PO# 55114773 and Disc PO / HT# : 45361557 / LDH

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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


Signed J. Sciulli  Nuclear Engineer Date July 17, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CTBS ^{207/012} of Hartford, CT ²⁰⁷⁻¹⁸⁻¹² have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions 269428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

As Required by the Provisions of the ASME Code, Section III, Division 1

Certificate Holder's Serial No. 11075 & 110768. Design conditions 1100 psi 560 °F or valve pressure class 600 (1)
(pressure) (temperature)9. Cold working pressure 1440 psi at 100°F10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi11. Remarks: Qty. 2, Enertech Job Number 24628V

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02Date 4/30/01 Name Enertech 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 California and employed by Hartford Steam Boiler Insp. & Insur. Co. of Connecticut have inspected the pump, or valve, described in this Data Report on 4/30/01, 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 4/30/01 Signed [Signature] Commissions CA 1494
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3355

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Maintenance
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date July 2, 2012

Sheet 1 of 1

Unit No. 1

Work Order #200437287
Repair/Replacement Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Residual Heat Removal (Class C)

5. (a) Applicable Construction Code Section III 19 68 Edition, N/A Addenda, --- Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Joseph Oat Co.	1832-2	369	1RH-E-1B	1969	Corrected	Yes

7. Description of Work Replaced stud and nut.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3355

RTL #A4.414A

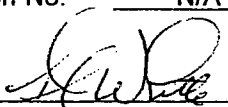
9. Remarks No Code Data Report available. Previous NIS-2 Data Report No. 1261. Replacement 1-3/8" Studs: PO 47230402, Ht. #2T29; Nuts: PO 45185711, Ht. #S663.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed T. White  Staff Engineer Date July 2, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ²⁰¹²⁻¹² CF GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions 189428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-2-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3356

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 6, 2012Sheet 1 of 1Unit No. 1Work Order #200446252

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Auxiliary Feedwater (Q3)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Rockwell Int.	N/A	N/A	1FW-626	1976	Corrected	No
Disc	Rockwell Int.	N/A	N/A	Ht.#A11527	1982	Installed	No

7. Description of Work Replaced valve disc and seal welded cover to body.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3356

RTL #A4.414A

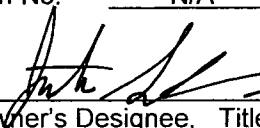
9. Remarks No Code Data Reports available. No Previous NIS-2 Reports. Disc PO / HT# C014193 / A11527

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Sciulli  Nuclear Engineer Date July 17, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3357

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)Date 11/23/1176 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200431213

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

3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Emergency Diesel Generator Fuel Oil (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 71 Edition, S'71 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Schneider Power	N/A	N/A	OL-32	1976	Corrected	No
Pipe	Energy & Process Corp.	N/A	N/A	Ht. #26283	2009	Installed	No

7. Description of Work Replaced pipe nipple.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3357

RTL #A4:414A

9. Remarks No Code Data Report available. Replaced 2" NPS pipe nipple: PO 45300913.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

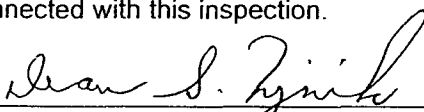
Certificate of Authorization No. N/A Expiration Date N/A

Signed T. White  Staff Specialist Date November 23, 20 11
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ET GS of Hartford, CT have inspected the components described in this 2812 Owner's Report during the period 11-5-10 to 11-28-11, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 11-28-, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3359

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Date 06/25/2012Sheet 1 of 1Unit No. 1Work Order # 200461291

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System River Water System (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case _____(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipe	N/A	N/A	N/A	WD-25	1976	Corrected	No
Flange	Tioga Pipe	N/A	N/A	Ht. # S1244	2011	Installed	No
Strainer	Energy Steel	N/A	N/A	1RW-YS-47	2011	Installed	No
Bushing	Energy & Process Corp	N/A	N/A	Lot.# 9231	1999	Installed	No

7. Description of Work Installation of a Y-type strainer in a common header.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3359

*Record test pressure and temperature

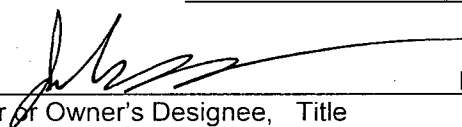
9. Remarks No previous NIS-2 reports. No Code Data Reports available. Studs PO / HT# 47309496 / 8898247, Nuts PO / HT # 47304550 / 5L75, Flange PO / HT # 45370737 / JCK, Flange Po / HT # 7088961 / S1244, Stainer PO # 45373055, Bushing PO# 47222576

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

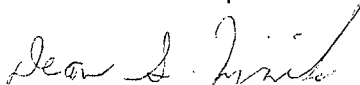
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed J. Sciulli  Nuclear Engineer Date June 25, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions 189428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3363

1. Owner F.E.N.O.C
(NAME)

Date 07/30/2012

76 South Main Street – Akron, OH 44308
(ADDRESS)

Sheet 1 of 1

Unit No. 1

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

Work Order # 200204299
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS Maintenance
(NAME)

Type Code Symbol Stamp N/A

Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Chemical Volume and Control (Q1)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Rockwell Edwards	N/A	N/A	1CH-187	1976	Removed	No
Valve	Flowserve	N/A	N/A	1CH-187	2006	Installed	No
Pipe	Energy & Process	N/A	N/A	Ht.#529524	2011	Installed	No
Support	Stone & Webster	N/A	N/A	H-121	1976	Corrected	No

7. Description of Work Replace valve, piping and modify piping support to accommodate clearance.

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

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3363


*Record test pressure and temperature

9. Remarks No Previous NIS-2 reports. No Code Data Reports available. Valve PO# 55102271, Pipe PO / HT # 47334910 / 529524

Applicable Manufacturer's Data Reports to be attached


CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Sciulli  Nuclear Engineer Date July 30, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB 9428 ANSB PA 2384
National Board, State, Province, and EndorsementsDate 7-30-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3370

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date 06/25/2012

Sheet 1 of 1
Unit No. 1

Work Order # 200427629
Repair/Replacement Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System River Water (Q3)
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2011E - 2003A
(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	BNL Industries	B021016-1-9	N/A	1RW-129	2003	Corrected	No
End Piece	BNL Industries	B110506-1-2	N/A	N/A	2011	Installed	No
Pipe	Energy and Process	N/A	N/A	N/A	1995	Installed	No
Flange	Energy and Process	N/A	N/A	N/A	2011	Installed	No

7. Description of Work Replace old stainless steel end fittings with new AL6XN fittings

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33709. Remarks Previous NIS-2 report numbers: 1834 and 1571. No Code Data reports available.

Applicable Manufacturer's Data Reports to be attached

End Piece PO/HT# : 45369475 / D6771 - 01 and 02. Pipe PO / HT# : 45176035 / 819593 and Flange PO / HT# : 47324692 / 99FE**CERTIFICATE OF COMPLIANCE**

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Scully Nuclear Engineer Date July 10, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GT 65-12 of Hartford, CT have inspected the components described in thisOwner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zwick
Inspector's SignatureCommissions JB 9428 A NIB PA 2384
National Board, State, Province, and EndorsementsDate 7-11-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33711. Owner F.E.N.O.C
(NAME)Date 06/25/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order # 200427630

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

3. Work Performed By BVPS Construction Services
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case _____(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity: 2011E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	BNL Industries	B021016-1-7	N/A	1RW-131	2003	Corrected	No
End Piece	BNL Industries	B110506-1-1	N/A	N/A	2011	Installed	No
Elbow	Energy and Process	N/A	N/A	N/A	2011	Installed	No
Flange	Energy and Process	N/A	N/A	N/A	2011	Installed	No

7. Description of Work Replace old stainless steel end fittings with new AL6XN fittings8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33719. Remarks Previous NIS-2 report numbers: 1884 and 1571. No Code Data reports available.

Applicable Manufacturer's Data Reports to be attached

End Piece PO/HT# : 45369475 / D6772 - 03 and D6774-03. Elbow PO / HT# : 47324692 / NBUD-1 and Flange PO / HT# : 47324692 / 99FE**CERTIFICATE OF COMPLIANCE**

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Scivili John Scivili Nuclear Engineer Date July 10, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT GS ⁰⁷⁻¹¹⁻¹² of Hartford, CT have inspected the components described in thisOwner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean L. Zynits
Inspector's SignatureCommissions NB9428 ANIB PA2384
National Board, State, Province, and EndorsementsDate 7-11-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3374

1. Owner F.E.N.O.C
(NAME)Date 07/11/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200440317

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

3. Work Performed By BVPS - Construction Services
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Quench Spray (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Stone & Webster	N/A	N/A	QS-46-153A-Q3	1976	Removed	No
Piping	Energy & Process	N/A	N/A	N/A	2010	Installed	No
Orifice	Stone & Webster	N/A	N/A	RO-1QS-100A	1976	Removed	No
Valve	Westinghouse	0001	N/A	MOV-1QS-103A	1976	Removed	No
Valve	Rockwell	N/A	N/A	1QS-165	1976	Removed	No

7. Description of Work Removed a bypass line8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3374Other ☐

Pressure _____ psi

Test Temp. _____ °F

*Record test pressure and temperature

9. Remarks No Previous NIS-2's. No Code Data Reports Available. Piping PO / HT# 45378025 / 48674

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned J. Scull Nuclear Engineer Date July 11, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT 65 of Hartford, CT have inspected the components described in thisOwner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean J. Zirk
Inspector's SignatureCommissions NB9428 A NIB PA 2384
National Board, State, Province, and EndorsementsDate 7-16-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3376

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date 06/25/2012Sheet 1 of 1Unit No. 1Work Order # 200434872

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Safety Injection (Q1)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	ITT Grinnell	9208	N/A	SI-HSS-421	1976	Removed	No
Snubber	Grinnell Corp.	VB-7488	N/A	SI-HSS-421	1988	Installed	No

7. Description of Work Replacement of snubber8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33769. Remarks No previous NIS-2 reports. No Code Data Reports available. Snubber PO: D060076

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Scivili Nuclear Engineer Date June 25, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT 65 of Hartford, CT have inspected the components described in thisOwner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zisch
Inspector's SignatureCommissions NA9428 ANIA PA 2384
National Board, State, Province, and EndorsementsDate 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3378

1. Owner F.E.N.O.C
(NAME)

Date 06/26/2012

76 South Main Street – Akron, OH 44308
(ADDRESS)

Sheet 1 of 1

Unit No. 1

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

Work Order # 200441062

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

3. Work Performed By BVPS - Construction Services
(NAME)

Type Code Symbol Stamp N/A

Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Recirc Spray (Class C)

5. (a) Applicable Construction Code ASME III 19 68 Edition, W' 68 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Industrial Process Eng	6301-1	N/A	IRS-E-1A	1976	Corrected	Yes
Plug	Joseph Oat Corp	N/A	N/A	Ht. #D89473A	2011	Installed	No

7. Description of Work Replace end bell flange and plug tubes.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3378

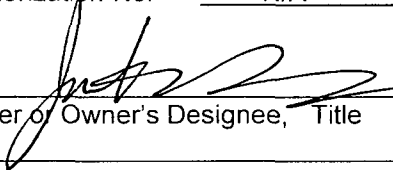
9. Remarks Previous NIS-2 Reports #'s: 295, 435, 557, 595, 690, 697, 854, 945, 1251, 1417, 1577, 1697, 1818, 1988, 3065 and 3212. No Code Data Reports available. Plug PO / HT# 710793 / D89473A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

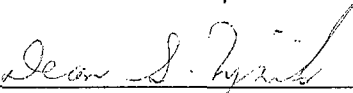
Signed J. Sciulli  Nuclear Engineer Date June 26, 20 12
Owner of Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB 076.5 ^{SC 1/4/12} of Hartford, CT ⁸⁻⁷⁻¹⁸⁻¹² have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions LB9427 ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3379

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Date 06/26/2012Sheet 1 of 1Unit No. 1Work Order # 200441089

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (C)5. (a) Applicable Construction Code ASME III 19 68 Edition, W' 68 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Industrial Process Eng	6301-3	N/A	IRS-E-1C	1976	Corrected	Yes

7. Description of Work Replace diaphragm and weld repair lower flange surface.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33799. Remarks Previous NIS-2 Reports #'s: 156, 287, 288, 466, 486, 588, 596, 689, 698, 855, 946, 1252, 1418, 1578, 1698, 1819, 1989, 3066, 3212, No Code Data Reports available.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Scialli Nuclear Engineer Date June 26, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT ^{from 7-10-12} CS ofHartford, CT have inspected the components described in thisOwner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Lynch
Inspector's SignatureCommissions NB9428ANIB PA2384
National Board, State, Province, and EndorsementsDate 7-10, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33811. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Date 07/16/2012Sheet 1 of 1Unit No. 1Work Order# 200441091

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Q3)5. (a) Applicable Construction Code Section III 19 68 Edition, W68 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Senior Engineering	SL-14007-02	8146	1RS-E-1D	1993	Corrected	Yes

7. Description of Work Repalce end bell studs and nuts8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3381

9. Remarks Code Data Report Attached, Previous NIS-2 Report #3059: Studs PO / HT# 45243289 / 0Z84 and Nuts Po / HT# 45339118 / 4H71

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Scull Nuclear Engineer Date July 26, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CTS of Hartford, CT have inspected the components described in this 7-30-12

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean L. Irish
Inspector's Signature

Commissions NB 9428 ANEB Pt 2384
National Board, State, Province, and Endorsements

Date 7-30-, 20 12

FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS*

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Senior Engineering Company, Berlin Operations, 242 South Pearl St., Berlin WI.
(name and address of N Certificate Holder)
2. Manufactured for Duquesne Light Company, P.O. Box 345 Route 168, Shippingport, PA 15077
(name and address of Purchaser)
3. Location of installation Duquesne Light Company, Beaver Valley Power Station, Shippingport, PA.
(name and address)
4. Type: Vert. Heat Ex. 14007-02 -- D-14007-S-200 Rev. E 8146 1993
(horiz. or vert.) (tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CAN) (drawing no.) (Nat'l. Bd. no.) (year built)
5. ASME Code, Section III, Division 1: 1968 -- 3 N-438-2
(edition) (addenda date) (class) (Code Case no.)

Items 6-10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: SA-240-304 75,000 .375" .173" 3' 0 1/8" 36' 7 1/4"
(mat'l. spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: Wld. Dbl. Butt No Full 100 Wld. Dbl. Butt No Full 5
(long.) (HT¹) (RT) (eff. %) (girth) (HT¹) (RT) (no. of courses)
8. Heads: N/A N/A N/A N/A
(a) mat'l. spec. no. (tensile strength) (b) mat'l. spec. no. (tensile strength)
- | | Location
(top, bottom, ends) | Thickness | Crown
Radius | Knuckle
Radius | Elliptical
Ratio | Conical
Apex Angle | Hemispherical
Radius | Flat
Diameter | Side to Pressure
(convex or concave) |
|-----|---------------------------------|-----------|-----------------|-------------------|---------------------|-----------------------|-------------------------|------------------|---|
| (a) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (b) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
- If removable, bolts used N/A N/A Other fastening N/A
(mat'l. spec. no., size, quantity) (describe or attach sketch)

9. Jacket closure: N/A
(Describe as ogee & weld, bar, etc. If bar, give dimensions, describe or sketch)
10. Design pressure² 150 at max. temp. 280 Min. pressure-test temp. 50 hydro. or mech. test pressure 270
(psi) (°F) (°F) (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SA-240-304 37 3/4" 2 1/2" Welded
(stationary, mat'l. spec. no.) (dia. in. (subject to press.)) (thickness (in.)) (attachment (welded, bolted))
- SA-240-304 37 3/4" 2 1/2" Welded
(floating, mat'l. spec. no.) (dia. in.) (thickness (in.)) (attachment)
12. Tubes: SB-676 UNS N 08367 (AL6XN) 5/8" .035" Min. 1354 Straight
(mat'l. spec. no.) (OD (in.)) (thickness (inches or gage)) (no.) (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

Inlet and Outlet

13. Shell: SA-516-70 70,000 .750" .183" 3' 0 1/4" 2' 6 3/8"
(mat'l. spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
14. Seams: Wld. Dbl. Butt No Spot 85 Wld. Dbl. Butt No Spot 1-Ea.
(long. (welded, dbl., single)) (HT¹ (yes or no)) (RT) (eff. %) (girth) (HT¹) (RT) (no. of courses)
15. Heads: -- -- SA-516-70 70,000 SA-516-70 70,000
(a) mat'l. spec. no. (tensile strength) (b) mat'l. spec. no. (tensile strength) (c) mat'l. spec. no. (tensile strength)
- | | Location | Thickness | Crown
Radius | Knuckle
Radius | Elliptical
Ratio | Conical
Apex Angle | Hemispherical
Radius | Flat
Diameter | Side to Pressure
(convex or concave) |
|-----|---------------------|-----------|-----------------|-------------------|---------------------|-----------------------|-------------------------|------------------|---|
| (a) | Top, bottom, ends | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (b) | Channel Inlet End | 2 11/16" | N/A | N/A | N/A | N/A | N/A | 45" | N/A |
| (c) | Floating Outlet End | 2 11/16" | N/A | N/A | N/A | N/A | N/A | 45" | N/A |

(B) SA-193-B7, 1 1/8" Dia., 42

- If removable, bolts used (C) SA-193-B7, 1 1/8" Dia., 42 N/A Other fastening N/A
(mat'l. spec. no., size, quantity) (describe or attach sketch)

16. Design pressure² 150 at 280 Min. pressure-test temp. 50 hydro. or mech. test pressure 225
(psi) (°F) (°F) (psi)

¹ If postweld heat treated. ² List other internal or external pressure with coincident temperature when applicable.

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in Items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and number of sheets is recorded at top of this form.

17. Nozzles, inspection and safety valve openings:

Drain Purpose (inlet, outlet, drain, etc.)	1 Quantity	2" Dia. or Size	S.W. Conn Type	N/A How Attached	N/A Mat'l.	N/A Thickness	N/A Reinfc./Cement Material	Inlet Ch. Cov Location
Inlet-Outlet	2	1' 1 1/4"	W.E.	Welded	SA-106-B	.067"	N/A	Channels
Outlet	1	1' 0"	W.E.	Welded	SA-312-304	.058"	N/A	Shell
Inlet	1	0' 10.020"	W.E.	Welded	SA-312-304	.048"	N/A	Shell
Inspection Port	4	4" Studded	W/B1 Flg	Welded	SA-182-F304	150#	N/A	Shell
Vent	1	3/4"	S.W. Cplg	Welded	SA-182-F304	6000#	N/A	Shell
Drain	1	2"	S.W. Cplg	Welded	SA-182-F304	6000#	N/A	Shell
Vent	1	3/4"	S.W. Cplg	Welded	SA-105-I	6000#	N/A	Out. Chan.

18. Test Ports No 4 Lugs N/A 1/2" N/A S.W. Conn Rings Attached Welded to shell. - Chan. Covers
 Supports: Skirt (yes or no) Legs (quantity) Other (describe) & ribs (1) (where & how)

19. Remarks: Recirculation spray cooler. Tube fluid: River water, Shell fluid: Recirculation spray water.

Number of passes: Tubes - 1, Shell - 1. Inlet and Outlet channel flanges: SA-350-LF2, 45" O.D.

x 36 1/4" x 5 5/8" lg, machined to form butt joint with channel barrel. Shell section: SA-240-304,

3' 0 1/8" I.D. x 7' 10" lg. x 3/4" thick, (included in Items 6 & 7).

CERTIFICATION OF DESIGN

Design specification certified by John D. Harding P.E. State PA Reg. no. 027491-E

Design report certified by David H. Pritzl P.E. State WI Reg. no. 18378

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2811 Expires April 16, 1993

Date 3/11/93 Name Senior Engineering Company, Berlin Signed RW Rich
 (IN Certificate Holder) Operations (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Wisconsin and employed by Western National Mutual Insurance Company

of Minneapolis, Minnesota have inspected the component described in this Data Report on

2-25-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component 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 3-11-93 Signed Harvey C. Wilgans Commissions AB # 4120 RN N.I. # 15
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. Expires

Date Name Signed
 (IN Certificate Holder) (authorized representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

of have compared the statements in this Data Report with the described component

and state that parts referred to as data items not included in the certificate of shop

inspection, have been inspected by me on and that to the best of my knowledge and belief the Certificate Holder has constructed

and assembled this component 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 Signed Commissions
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3382

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)Date July 02, 201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 4Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200440398
Repair/Replacement Organization P.O. No., Job No., etc.3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Class A)5. (a) Applicable Construction Code Section III 19 68 Edition, S'68 Addenda, N/A Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Relief Valve	Target Rock	0569C-001-1-4	N/A	RV-1RC-551C	2007	Removed	Yes
Relief Valve	Target Rock	0569C-001-1-6	N/A	RV-1RC-551C	2007	Installed	Yes

7. Description of Work Replaced valve with spare along with inlet studs and nuts.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI


NOP-CC-5703-02 Rev. 00

Report Number 3382

RTL #A4.414A

9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No. 1993. Replacement 1-3/8" Studs: POApplicable Manufacturer's Data Reports to be attached47230402, Ht. #2T29 & 2X65; Nuts: PO 45353108, Ht. #4M49; PO 47231688, Ht. #2U82. NWS Technologiesrepaired spare valve prior to installation, NVR-1 attached.**CERTIFICATE OF COMPLIANCE**

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned T. White  Staff Engineer Date July 2, 20 12
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ~~CT~~ ²⁻⁷⁻²⁻¹² CS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB 9428 ANIB PA 2384
National Board, State, Province, and EndorsementsDate 7-2-, 20 12

FORM NV-1 CERTIFICATE HOLDERS' DATA REPORT FOR PRESSURE OR VACUUM RELIEF VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 3

1. Manufactured and certified by Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735
 (name and address of NV Certificate Holder)
2. Manufactured for First Energy; Route 168; Shippingport, PA
 (name and address of Purchaser)
3. Location of installation Beaver Valley Power Station; Route 168; Shippingport, PA
 (name and address)
4. Valve 0569C-001-1 Orifice size 2.443 Nom. Inlet size 6 Outlet size 6
 (Model no., series no.) (in.) (in.) (in.)
5. ASME Code, Section III, Division 1: 1968 Summer 1968 A None
 (edition) (addenda date) (class) (Code Case no.)
6. Type Pilot Operated 2485 120 650°F 3325 at 100°F max.
 (spring, pilot or power operated) (set pressure, psig) (blowdown, psi) (rated temp) (hydro test, psig, inlet)
7. Identification 6 N/A 0569C-001 Rev. D N/A 2007
 (Cert. Holder's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
8. Control ring settings N/A
9. Pressure retaining items:
- | | Serial No. Or Identification | Mat'l. Spec. Including Type or Grade | Tensile Strength |
|------------------|------------------------------|--------------------------------------|------------------|
| Body | <u>342</u> | <u>SA351 CF8M</u> | <u>75 ksi</u> |
| Bonnet or Yoke | <u>13</u> | <u>SA105</u> | <u>70 ksi</u> |
| Support Rods | | | |
| Nozzle | | | |
| Disk | <u>7</u> | <u>SA 564 630</u> | <u>140 ksi</u> |
| Spring Washers | | | |
| Adjusting Screws | | | |
| Spindle | | | |
| Spring | | | |
| Bolting | <u>See page 2 of 3</u> | | |
| Other Items | <u>See page 2 of 3</u> | | |
10. Relieving capacity 345,000 lbs/hr overpressure as certified by the National Board (69C) 10/07/2005
 (date)
11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by F.W. Gardner P.E. State PA Reg. No. 036614-E

Design Report certified by Not applicable P.E. State N/A Reg. No. N/A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-1949 Expires 12/12/2007

Date 11/28/07 Name Target Rock Signed J DeBonis
 (Certificate Holder) (authorized representative)

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

FORM NV-1 (Pg. 2 of 3)

Certificate Holder's Serial No. 0569C-001-1 s/n 6

1. Manufactured and certified by Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735
(name and address of NV Certificate Holder)
2. Manufactured for First Energy; Route 168; Shippingport, PA
(name and address of Purchaser)
3. Location of installation Beaver Valley Power Station; Rout 168; Shippingport, PA
(name and address)
4. Valve 0569C-001-1 Orifice size 2.443 Nom. Inlet size 6 Outlet size 6
(Model no., series no.) (in.) (in.) (in.)

Pressure Retaining Item		Serial No. or Identification	Material Spec. Including Type or Grade	Tensile Strength
Main Seat	200323-1	40	SA479 304L	70 ksi
Pilot Body	303839-2	6	SA479 304	75 ksi
Bonnet Cap	200324-1	13	SA105	70 ksi
End Cap	303835-1	7	SA479 316	75 ksi
Hex Nut	100-0076	n/a	SA194 2H	n/a
Hex Bolt	100501-1	n/a	SA193 B7	125 ksi
Stud	206189-2	n/a	SA193 B7	125 ksi
Stud	206189-1	n/a	SA193 B7	125 ksi
Stud	100482-2	n/a	SA193 B7	125 ksi
Stud	100482-1	n/a	SA193 B7	125 ksi

FORM NV-1 (Pg. 3 of 3)

Certificate Holder's Serial No. 0569C-001-1 s/n 6

1. Manufactured and certified by Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735
(name and address of NV Certificate Holder)
2. Manufactured for First Energy; Route 168; Shippingport, Pa
(name and address of Purchaser)
3. Location of installation Beaver Valley Power Station; Route 168; Shippingport, PA
(name and address)
4. Valve 0569C-001-1 Orifice size 2.443 Nom. Inlet size 6 Outlet size 6
(Model no., series no.) (in.) (in.) (in.)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New York and employed by OneBeacon America Insurance Company of Boston, MA have inspected the pump, or valve, described in this Data Report on 11/28/2007, 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 11/28/07 Signed [Signature] Commissions N.Y. 5102
(Authorized Inspector) (Nat'l. Bd.(incl. endorsements) and state or prov. and no.)

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☐
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 55112106
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: First Energy Corporation, Beaver Valley Power Station
- 3/4. Owner - name, address and identification of nuclear power plant: Beaver Valley Power Station,
P.O. Box 4, Shippingport, PA 15077
5. a: Repaired pressure relief device: Pressurizer Safety Valve
b: Name of manufacturer: Target Rock Corporation
c: Identifying nos.
- | <u>0569C</u> | <u>Pilot 2 Main 6</u> | <u>n/a</u> | <u>steam</u> | <u>6 x 6</u> | <u>2007</u> |
|---|-----------------------|--------------|----------------|--------------|-------------|
| (type) | (mfr's S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME / III / 1</u> | <u>1968</u> | <u>S '68</u> | <u>n/a</u> | <u>A</u> | |
| (name/section/division) | (edition) | (addenda) | (Code Case(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1968 S '68 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 2485 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Valve received assembled loosely from another facility. Disassembled, inspected, lapped and reassembled. Certified using steam. Failed post certification N2 bellows integrity test. Repaired. Certified set-pressure and tightness using steam. Lapped main seat post certification to improve N2 tightness.
12. Remarks: NWS Traveler # 12-59. No code parts replaced.

CERTIFICATE OF COMPLIANCE

I, Jason C. Gibson certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2015.

National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

3/23/12

Date

NWS Technologies, LLC

Repair Organization

J.C. Gibson

Authorized representative

Manager, QA

Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 23 MAR 2012 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement 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.

3/23/12

Date

Charles F. Toegel Jr.

Inspector's Signature

NB # 8462, A, N, I NC# 1073

Commissions (NB (incl endorsements), jurisdiction, & no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3388

1. Owner F.E.N.O.C
(NAME)

Date 07/11/12

76 South Main Street – Akron, OH 44308
(ADDRESS)

Sheet 1 of 1

Unit No. 1

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

Work Order# 200418386
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS - Construction Services
(NAME)

Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System River Water (Q3)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Allis Chalmers	129670	N/A	MOV-1RW-102B1	1976	Removed	No
Valve	Velan	610903-2	N/A	MOV-1RW-102B1	2006	Installed	No
Spacer	Velan	N/A	N/A	N/A	2011	Installed	No
Studs	Trust Manuf.	N/A	N/A	N/A	2011	Installed	No
Nuts	Nova Machine	N/A	N/A	N/A	2007	Installed	No

7. Description of Work Replacement of existing MOV with a new valve.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3388

9. Remarks Previous NIS-2# 976. No Code Data Reports available. Valve PO# 45374436, Spacer PO /HT# 45374436 / 5DID, Studs PO / HT# 45349581 / JJ20 and Nuts PO/HT# 45339118 / 251897

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Scull Owner Engineer Date July 11, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT 63 2270411 of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Sean L. Griffin
Inspector's Signature

Commissions NB 9428 A.I.B. PA 2384
National Board, State, Province, and Endorsements

Date 7-16-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33901. Owner F.E.N.O.C
(NAME)Date 06/26/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200418383

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

3. Work Performed By BVPS - Construction Services
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Rodney Hunt	66127-4	N/A	MOV-1RW-103D	1976	Removed	No
Valve	Velan	610902-1	N/A	MOV-1RW-103D	2011	Installed	No
Flange	Energy & Process	N/A	N/A	HT# VRA3	2007	Installed	No
Flange	Energy & Process	N/A	N/A	HT# 207P390	2007	Installed	No
Elbow	Energy & Process	N/A	N/A	HT# X750A	2007	Installed	
Pipe	Energy & Process	N/A	N/A	HT# A21216	2007	Installed	No

7. Description of Work Replace valve and assoicated piping/bolting.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3390

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

*Record test pressure and temperature

9. Remarks No previous NIS-2 Reports. No code data reports available. Valve PO # 45374436, Nuts PO/HT# 47341718 / NN16, Studs PO/HT# 45380054 / MM99, Pipe PO / HT# 47160138 / A21216, Elbow PO# 4579054 / X750A, Flange PO / HT# 45373299 / 207P390 and Flange PO / HT# 7114449 / VRA3

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Scialli Nuclear Engineer Date June 26, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB O&S of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Smith
Inspector's Signature

Commissions JB9428 A1EB PA2384
National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3391

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Date 06/26/2012Sheet 1 of 1Unit No. 1Work Order# 200418381

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Rodney Hunt	129422	N/A	MOV-1RW-103C	1976	Removed	No
Valve	Velan	610902-2	N/A	MOV-1RW-103C	2011	Installed	No
Pipe	Energy & Process Corp	N/A	N/A	HT# A21216	2007	Installed	No
Flange	Energy & Process Corp	N/A	N/A	HT# 227CB26	2007	Installed	No
Flange	Energy & Process	N/A	N/T	HT# VRA3	200	Installed	No

7. Description of Work Replace valve and assoicated piping8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3391

Other ☐

Pressure _____ psi

Test Temp. _____ °F

*Record test pressure and temperature

9. Remarks No previous NIS-2 Reports. No code data reports available. Valve PO # 45374436, Pipe PO / HT# 47160138 / A21216, Flange PO / HT# 7114449 / VRA3 and Flange PO / HT# 47092230 / 227CB26

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Sculli Nuclear Engineer Date June 26, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB DTGS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Lynch
Inspector's Signature

Commissions NB9428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-19, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3397

1. Owner F.E.N.O.C
(NAME)Date 06/27/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200439811

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

3. Work Performed By BVPS - Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Crane	D2088	N/A	1RW-107	1976	Removed	No
Valve	Crane	89-0929-01-(Q)-02	N/A	1RW-107	1989	Installed	No

7. Description of Work Replace valve and bolting8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3397

9. Remarks Previous NIS-2 report #'s: 1273, 3079. No Code Data Reports available. Valve PO# 200368997, Studs PO/HT# 45380054 / MM99 and 47117569 / X573, Nuts PO / HT# 45311144 / 3J23, 45334732 / CC16.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Scivili Nov. Engineer Date June 27, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zwick
Inspector's Signature

Commissions 289428 A NIB P 172384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 33981. Owner F.E.N.O.C
(NAME)Date 06/27/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200433549
Repair/Replacement Organization P.O. No., Job No., etc.3. Work Performed By BVPS Construction Services
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, S'71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Anchor/Darling	N/A	N/A	1RW-189	1976	Removed	No
Valve	Velan	605904-1	N/A	1RW-189	2011	Installed	No

7. Description of Work Replace butterfly valve and associated bolting.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3398


9. Remarks Previous NIS-2 Report #'s : 1880 , 3292. No Code Data Reports available. Valve PO# 45370407

Applicable Manufacturer's Data Reports to be attached

Studs PO / HT#: 45305063 / 3B26, Nuts PO / HT# 47059253 / J858**CERTIFICATE OF COMPLIANCE**

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

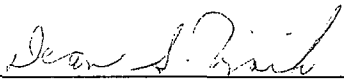
Signed J. Sciulli  Nuclear Engineer Date June 27, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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



Inspector's Signature

Commissions NB 9428 A NIB PA 2384
National Board, State, Province, and EndorsementsDate 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3399

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date 06/27/2012

Sheet 1 of 1

Unit No. 1

Work Order# 200433780
Repair/Replacement Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System River Water (Q3)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A
- (c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Anchor/Darling	EZ068-1-3	N/A	1RW-190	1976	Removed	No
Valve	Velan	605904-2	N/A	1RW-190	2011	Installed	No
Studs	Nova Machine / Trust Manuf	N/A	N/A	Ht.# HH04 / 3B26	2005	Installed	No
Nuts	Nova Machine	N/A		Ht.# 0Z84 / J858	2010	Installed	No

7. Description of Work Replacement of butterfly valve and associated bolting

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

Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3399

9. Remarks Previous NIS-2 Report #'s : 976 , 1881. No Code Data Reports available. Valve PO# 45370407

Applicable Manufacturer's Data Reports to be attached

Studs PO / HT#: 45305063 / 3B26, 45243289 / 0Z84, 47267410 / HH04, Nuts PO / HT# 47059253 / J858**CERTIFICATE OF COMPLIANCE**

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Sciulli  Nuclear Engineer Date June 27, 2012

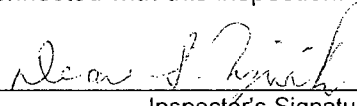
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NSBPV28ANIS PA2384
National Board, State, Province, and EndorsementsDate 7-30-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3404

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS - Maintenance
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date 06/27/2012

Sheet 1 of 1

Unit No. 1

Work Order# 200500271

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Chemical Volume Control System (Q1)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S71 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Rockwell	N/A	N/A	1CH-190	1976	Removed	No
Valve	Rockwell	N/A	N/A	1CH-190	1982	Installed	No
Pipe	Energy & Process	N/A	N/A	N/A	2010	Installed	No

7. Description of Work Replace valve and piping.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3404

9. Remarks No previous NIS-2 reports. No Code Data Reports available. Valve PO# CO18409, Piping PO / HT# 47334910 / 529524

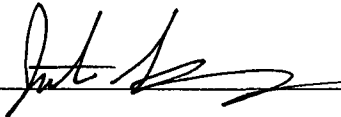
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Sciulli  Nuclear Engineer Date June 27, 20 12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT ²⁻¹⁸⁻¹² ₆₋₅₋₁₂ of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3405

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Construction Services
(NAME)Shippingport, PA 15077
(ADDRESS)Date 07/11/2012Sheet 1 of 1Unit No. 1Work Order# 200456590

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Quench Spray (Q2)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71A Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	Stone & Webster	N/A	N/A	1QS-85	1976	Corrected	No
Support	Stone & Webster	N/A	N/A	1QS-PSR-001	1976	Corrected	No
Pipe Cap	Energy & Process	N/A	N/A	N/A	2008	Installed	No
Plate	Energy & Process	N/A	N/A	N/A	2010	Installed	No
Plate	Energy & Process	N/A	N/A	N/A	2010	Installed	No

7. Description of Work Cut, cap and retire in place chemical addition sub-system of Containment Depressurization System.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3405

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

*Record test pressure and temperature

9. Remarks No previous NIS-2 Reports. No Code Data Reports Available. Pipe Cap PO / HT# 45378260 / 247870, C.S Plate PO / HT# 45362550 / A9U1512. S.S Plate PO / HT# 45376981 / 6YB4 - EA

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Scivilli Nuclear Engineer Date July 11, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT 65 of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions NB 9428 A NIB PA 2384
National Board, State, Province, and Endorsements

Date 7-16-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3406

1. Owner F.E.N.O.C
(NAME)

Date 06/28/2012

76 South Main Street – Akron, OH 44308
(ADDRESS)

Sheet 1 of 1

Unit No. 1

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

Work Order# 200456591
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS - Construction Services
(NAME)

Type Code Symbol Stamp N/A

Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Quench Spray System (Q3)

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E -2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Cap	Energy & Process	N/A	N/A	N/A	2009	Installed	No
Plate	Energy & Process	N/A	N/A	N/A	2010	Installed	No
Plate	Energy & Process	N/A	N/A	N/A	2010	Installed	No
Pipeline	Stone & Webster	N/A	N/A	QS-86	1976	Corrected	No
Support	Stone & Webster	N/A	N/A	QS-PSR-012	1976	Corrected	No

7. Description of Work Cut and Cap quench spray line as well as modify piping supports.

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

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3406

Other ☐

Pressure _____ psi

Test Temp. _____ °F

*Record test pressure and temperature

9. Remarks No previous NIS-2 reports. No Code Data Reports available. Cap PO/HT# 45378260 / 247870 Stainless Steel Plate PO/HT# 45376981 / 6YB4 - EA, Carbon Steel Plate PO/HT# 45362550 / A9U1512

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Scully Nuclear Engineer Date June 28, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Lynch
Inspector's Signature

Commissions PA 2384
National Board, State, Province, and Endorsements

Date 7-11-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3421

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)

76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Valve Team
(NAME)

Shippingport, PA 15077
(ADDRESS)

Date July 3, 2012

Sheet 1 of 1

Unit No. 1

Work Order #200456673
Repair/Replacement Organization P.O. No., Job No., etc.

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Sample System (Q1)

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	Masoneilan	H-49378-234	N/A	TV-1SS-110	1976	Corrected	No
Plug and Steam Assembly	Enertech	N/A	N/A	N/A	2002	Installed	No

7. Description of Work Replaced plug assembly and body to bonnet nuts.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3421

RTL #A4.414A

9. Remarks No Code Data Reports available. Replacement 5/8" Nuts: PO 15103101, Ht. #5R24, Plug / Steam Assembly PO# 7071892

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Sciulli Nuclear Engineer Date July 16, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zich
Inspector's Signature

Commissions NB9428 ANEB P42384
National Board, State, Province, and Endorsements

Date 7-30-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3422

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)Date July 3, 201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200440208

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

3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Main Steam (Q2)5. (a) Applicable Construction Code B31.1 19 71 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Schutte & Koerting	N690562	N/A	TV-1MS-101A	1976	Corrected	No
Disc	Schutte & Koerting	N/A	N/A	N/A	1976	Removed	No
Disc	Flowserve	N/A	N/A	HT #M0392-1	2003	Installed	No

7. Description of Work Replaced valve disc.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3422

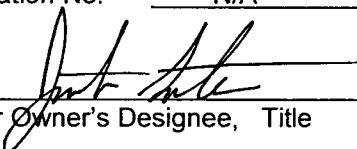
RTL #A4.414A

9. Remarks No Code Data Reports available. Previous NIS-2 Data Report No. 1608. Disc PO/ HT# 45115036 / M0392-1

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Sciulli  Nuclear Engineer Date July 16, 2012
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT ²⁻⁷⁻¹² ~~CT~~ ^{CS} of Hartford, CT have inspected the components described in thisOwner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB9428 ANIB PA 2384
National Board, State, Province, and EndorsementsDate 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 34721. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)Date 06/28/2012Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Word Order# 200438122

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

3. Work Performed By BVPS - Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical Volume Control System (Q2)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Masoneilan	H 40688-1-1	N/A	HCV-1CH-244	1976	Corrected	No
Studs	Trust Manuf.	N/A	N/A	N/A	2011	Installed	No
Nuts	Nova Machine	N/A	N/A	N/A	2006	Installed	No

7. Description of Work Replace bolting on flange of valve.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3472

9. Remarks No previous NIS-2 reports. No Code Data Reports available. Studs PO/HT# 453580624 / 783582 Nuts PO/HT# 45380625 / 6L86

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Sculli Owner Date June 28, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT-63-12 of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean L. Zwick
Inspector's Signature

Commissions NB 9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-10, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3487

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)Date July 3, 2012Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200468740

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

3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Q2)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Rockwell Int.	N/A	N/A	1CH-84	1976	Corrected	No
Disc	Rockwell Int.	N/A	N/A	N/A	1976	Removed	No
Disc	Rockwell Int.	N/A	N/A	Ht. #16322	1987	Installed	No
Cover	Rockwell Int.	N/A	N/A	N/A	1976	Removed	No
Cover	Flowserve	N/A	N/A	Ht.# 28130-2	2008	Installed	No

7. Description of Work Replaced valve cover and disc.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3487

RTL #A4.414A

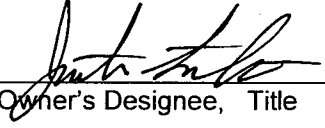
9. Remarks No Code Data Reports available. Previous NIS-2 Data Report No. 3275. Disc PO / HT# D039687 / 16322 and Cover PO / HT# 45347995 / 28130-2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

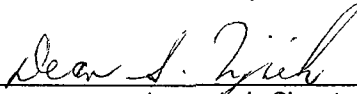
Signed J. Sciulli  Nuclear Engineer Date July 19, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIP PA2384
National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3494

1. Owner F.E.N.O.C
(NAME)Date 06/28/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200481020

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

3. Work Performed By BVPS- Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System 4KV Station Service (Q3)5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, S71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Stainer	Yarway Corp	N/A	N/A	OL-27	1976	Corrected	No
Elbow	Energy & Process	N/A	N/A	N/A	2005	Installed	No
Pipe	Energy & Process	N/A	N/A	N/A	2011	Installed	No
Flange	Energy & Process	N/A	N/A	N/A	2011	Installed	No

7. Description of Work Intall orifice flanges on common suction header for Emergency Diesel Fuel Supply line.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure psi Test Temp. °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3494

*Record test pressure and temperature

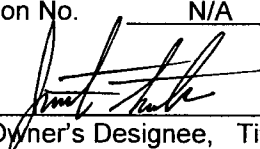
9. Remarks No previous NIS-2 Reports. No Code Data Reports available. Elbow PO / HT# 47084342 / 76150, Pipe PO/HT# 47341717 / 00A115309, Flange PO/HT# 45388518 / 5722ANF2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Sciulli  Nuclear Engineer Date June 28, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ²⁻¹⁹⁻¹² GT 65 of

Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Dean L. Zupnik Commissions 2B9428 ANEB PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3495

1. Owner F.E.N.O.C
(NAME)Date 07/16/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200481021

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

3. Work Performed By BVPS - Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Emergency Diesel (Q3)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case _____(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): _____

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Strainer	Yarway Corp	N/A	N/A	OL-32	1976	Corrected	No
Flange	Energy & Process Corp.	N/A	N/A	Ht.# 5722ANF2	2012	Installed	No
Pipe	Energy & Process	N/A	N/A	Ht.# 00A115309	2011	Installed	No
Elbow	Energy & Process	N/A	N/A	Ht.# 78129	2011	Installed	No

7. Description of Work Install orifice flanges on strainer.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3495

*Record test pressure and temperature

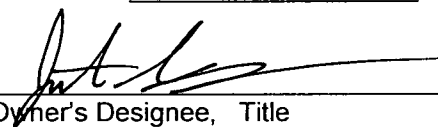
9. Remarks Previous NIS-2 Reports: 3357 No Code Data Reports Available. Flange PO / HT# 45388518 / 5722ANF2, Elbow PO / HT# 47337918 / 78129, Pipe PO / HT# 47341717 / 00A115309, Studs PO / HT# 45380624 / 783582 and Nuts PO / HT# 45380625 / 6L86.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

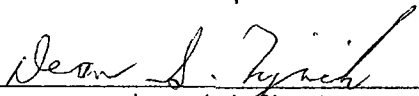
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed J. Sciulli  Nuclear Engineer Date July 17, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT ^{by 2-18-12} of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-18-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3496

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 3, 2012Sheet 1 of 1Unit No. 1Work Order #200482465

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Q1)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Support	First Energy	N/A	N/A	1CH-2413-PSR-001	2012	Installed	No

7. Description of Work Installed new pipe support.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3496

RTL #A4.414A

9. Remarks No Code Data Report available. New support fabricated from – 3" U Bolt: PO 45270483; 3/4" U Bolt PO 45389585; 2x2x1/4" Angle: PO 45337630, Ht. #JH1257; 2-1/2x2-1/2x1/4" Angle: PO 45389452, Ht. #JE1673.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

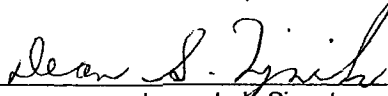
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed T. White  Staff Engineer Date July 3, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB 67-65 of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-6-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3500

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 3, 2012Sheet 1 of 1Unit No. 1Work Order #200499844
Repair/Replacement Organization P.O. No., Job No., etc.Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Q2)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pump	Bingham-Willamette	290596	N/A	1RS-P-2A	1976	Corrected	No

7. Description of Work Removed ISI indication from pump support weld #RS-P-2A-A-7 and weld repaired.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3500

RTL #A4.414A

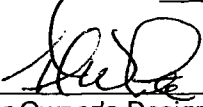
9. Remarks No Code Data Report available. Previous NIS-2 Data Report No. 3156.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

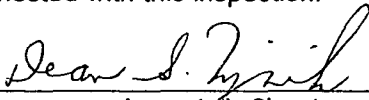
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed T. White  Staff Engineer Date July 3, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ^{on 7-6-12} GT 6-5 of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 7-6-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 35011. Owner F.E.N.O.C
(NAME)Date 06/28/201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order# 200500026

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

3. Work Performed By BVPS - Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control System (Q2)5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, S71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	N/A	N/A	N/A	CH-12	1976	Corrected	No
Pipe	Energy & Process	N/A	N/A	N/A	2008	Installed	No

7. Description of Work Correct pipe/flange misalignment to relief valve.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3501

9. Remarks No Previous NIS-2 Reports/. No Code Data Reports available. Pipe PO/HT# 45288131 / 40553

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed J. Scull Nuclear Engineer Date June 28, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ~~CT~~ ²⁰⁻⁷⁻¹⁰⁻¹² GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean L. Zisch Commissions NB9428 ANIB PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-10-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3502

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)Date July 3, 201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200499261
Repair/Replacement Organization P.O. No., Job No., etc.3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Q1)5. (a) Applicable Construction Code B31.1 19 1967 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Rockwell Intl.	N/A	N/A	1CH-334	1976	Removed	No
Valve	Rockwell Intl.	N/A	N/A	1CH-337	1976	Removed	No
Flange	Energy & Process	N/A	N/A	Ht. #31438	2003	Installed	No

7. Description of Work Removed valves, pipe, flanges and downstream tubing and installed blind flanges with new studs and nuts.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3502

RTL #A4.414A

9. Remarks No Code Data Reports available. Replacement 7/8" Studs: PO 47229411, Ht. #2S79; Nuts: POApplicable Manufacturer's Data Reports to be attached47350028, Ht. #6T32 and Flange PO /HT# 7124350 / 31438**CERTIFICATE OF COMPLIANCE**

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Sciulli  Nuclear Engineer Date July 16, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 ANEB PA 2384
National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3503

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 3, 2012Sheet 1 of 1Unit No. 1Work Order #200498743

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Q1)5. (a) Applicable Construction Code B31.1 19 1967 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Rockwell Intl.	N/A	N/A	1CH-335	1976	Removed	No
Valve	Rockwell Intl.	N/A	N/A	1CH-338	1976	Removed	No
Flange	Energy & Process	N/A	N/A	Ht. #31438	2003	Installed	No

7. Description of Work Removed valves, pipe, flanges and downstream tubing and installed blind flanges with new studs and nuts.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3503

RTL #A4.414A

9. Remarks No Code Data Reports available. Replacement 7/8" Studs: PO 47229411, Ht. #2S79; Nuts: PO
Applicable Manufacturer's Data Reports to be attached
47350028, Ht. #6T32 and Flange PO /HT# 7124350 / 31438

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

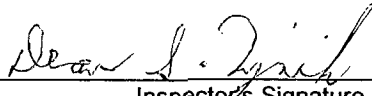
Signed J. Sciulli  Nuclear Engineer Date July 16, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT GS of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 A NIB PA2384
National Board, State, Province, and Endorsements

Date 7-19-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3504

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)

Date July 5, 2012

76 South Main Street – Akron, OH 44308
(ADDRESS)

Sheet 1 of 1

Unit No. 1

2. Plant Beaver Valley Power Station (BVPS)
(NAME)

Shippingport, PA 15077
(ADDRESS)

Work Order #200425563

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

3. Work Performed By BVPS Maintenance
(NAME)

Type Code Symbol Stamp N/A

Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Safety Injection (Class 2)

5. (a) Applicable Construction Code Draft Pump & Valve 19 1968 Edition, -- Addenda, Code Case N/A

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pump	Indersoll-Dresser	0671-140	N/A	1SI-P-1A	1976	Corrected	No
Seal Housing & Gland Plate	John Crane	N/A	N/A	Ref. #45170721	2006	Installed	No

7. Description of Work Installed new mechanical seal including housing and gland plate.

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

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3504

RTL #A4.414A

9. Remarks No Code Data Report available.

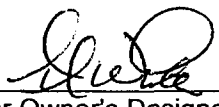
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

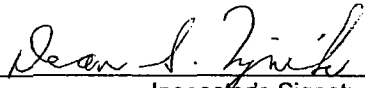
Certificate of Authorization No. N/A Expiration Date N/A

Signed T. White  Staff Engineer Date July 5, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT ⁰⁷⁻⁶⁻¹² of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-6-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3505

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)Date July 3, 201276 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200500489

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

3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Q1)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	Rockwell Int.	N/A	N/A	1CH-368	1976	Removed	No
Cap	Energy & Process	N/A	N/A	Ht. #421388	2009	Installed	No

7. Description of Work Removed valve and installed a pipe cap.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3505

RTL #A4.414A

9. Remarks No Code Data Reports available.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned T. White

Owner or Owner's Designee, Title

Staff Engineer

Date July 3, 20 12**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB GT 65 of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean D. Zurek
Inspector's Signature

Commissions

289428 ANIB PA 2384
National Board, State, Province, and EndorsementsDate 7-6-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 35071. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS - Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date 07/11/2012Sheet 1 of 1Unit No. 1Work Order# 200500705

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control System (Q1)5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001 E - 2003A

(c) Applicable Section XI Code Case(s):

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	MASONEILAN	H-20691-1-5	N/A	LCV-1CH-460B	1976	Corrected	No
Studs	Trust Manuf.	N/A	N/A	N/A	2012	Installed	No

7. Description of Work Replaced bonnet studs.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure psi Test Temp. °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3507

9. Remarks Previous NIS-2# 1415 and 1890. No Code Data Reports Available. Stud PO / HT# 45354196 / M41110

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

Signed J. Scully Nuclear Engineer Date July 11, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT65 of Hartford, CT have inspected the components described in this AS 7-34-12

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zick
Inspector's Signature

Commissions WB9428AVIS RA2384
National Board, State, Province, and Endorsements

Date 7-16-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3511

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Date July 5, 2012Sheet 1 of 1Unit No. 1Work Order #200500951

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Goodall	N/A	N/A	REJ-1RW-19C	1995	Removed	No
Expansion Joint	Garlock	12-1291349-01	N/A	REJ-1RW-19C	2012	Installed	No

7. Description of Work Replaced rubber expansion joint.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3511

RTL #A4.414A

9. Remarks No Code Data Reports available. Previous NIS-2 Data Report No. 766.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed T. White  Staff Engineer Date July 5, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT GS ^{on 7-5-12} of Hartford, CT have inspected the components described in this Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 A NIB PA 2384
National Board, State, Province, and Endorsements

Date 7-5-, 20 12

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3512

RTL #A4.414A

1. Owner F.E.N.O.C
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)Date July 5, 2012Sheet 1 of 1Unit No. 12. Plant Beaver Valley Power Station (BVPS)
(NAME)Shippingport, PA 15077
(ADDRESS)Work Order #200498212

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

3. Work Performed By BVPS Maintenance
(NAME)Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System River Water (Q3)5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, Code Case N/A(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	0-3208	N/A	REJ-1RW-18C	2000	Removed	No
Expansion Joint	Garlock	12-1300839-01	N/A	REJ-1RW-18C	2012	Installed	No

7. Description of Work Replaced rubber expansion joint.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure --- psi Test Temp. --- °F

*Record test pressure and temperature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3512

RTL #A4.414A


9. Remarks No Code Data Reports available. Previous NIS-2 Data Report No. 1337.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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

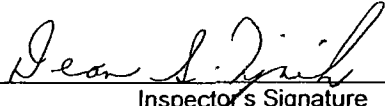
Signed T. White  Staff Engineer Date July 5, 20 12
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB ⁶⁻²⁻⁵⁻¹² CT G-5 of Hartford, CT have inspected the components described in this

Owner's Report during the period 11-5-10 to 5-11-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 ANIB PA 2384
National Board, State, Province, and Endorsements

Date 2-5-, 20 12