

Beaver Valley Power Station P.O. Box 4 Shippingport, PA 15077

Paul A. Harden Site Vice President 724-682-5234 Fax: 724-643-8069

January 31, 2011 L-11-002

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

SUBJECT: Beaver Valley Power Station, Unit No. 1 Docket No. 50-334, License No. DPR-66 Twentieth 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 IWE examinations performed prior to and during the twentieth 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 of each refueling outage. The recent inservice inspection term at BVPS-1 covered the period from May 22, 2009 to November 5, 2010.

The Class 1, 2, 3, and IWE examinations are part of Interval 4, Period 1 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. Thomas A. Lentz, Manager – Fleet Licensing, at 330-761-6071.

Sincerely,

Paul A. Harden



Beaver Valley Power Station, Unit No. 1 L-11-002 Page 2

Enclosure:

> FirstEnergy Nuclear Operating Company, Beaver Valley Power Station, Unit No. 1, Twentieth 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 Twentieth Refueling Outage Inservice Inspection Report

BEAVER VALLEY POWER STATION UNIT 1 Route 168, Shippingport, PA

Outage 20, Year 2010

Inspection Term: 5/22/2009 to 11/5/2010

Issue date: 1.26-2011

Owner: FirstEnergy 76 South Main St. Akron, OH 44308

NRC Docket Number: 50-334

Reactor Supplier: Westinghouse Electric Corporation Commercial Service Date: September 30, 1976

Reviewed by:

Date: 1-26-2011

Date: 1-26-2011

Approved by:

Date: 1-26-11

Manager, Technical Services Engineering

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Appendix I - Completed Code Examinations

Appendix II - Repair/Replacement Abstract and NIS-2 Forms

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS <u>As required by the Provisions of the ASME Code Rules</u>

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 150	77				
3.	Plant Unit	(Name and Address of Plant) 1 4. Owner Certificate of Authorization (if required)	N/A				
5.	Commercial S	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
1A Reactor Coolant Pump	Westinghouse	1-618J931G01	N/A	N/A
1B Reactor Coolant Pump	Westinghouse	2-618J931G01	N/A	N/A
1SI-22	Rockwell International	N/A	N/A	N/A
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
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Note: Supplemental sheets in form of lists, sketches, or dravings may be used, provided (1) size is $8\frac{1}{2}$ in. x 11 in., (2) information in items 1 though 6 on this report 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 070082300

FORM NIS-1 (Back)

8. Examination Dates	5/22/2009	to	11/5/20	10		
9. Inspection Period Identifie	cation: <u>4/1/200</u>	08 to 8/1/2011	(1 st Inspect	ion Period of 4 th Inter	val)	
10. Inspection Interval Identi	ification: <u>4/1/200</u>	08 to 3/31/201	8 (4 th 10-yr	Inspection Interval)	<u></u>	
11. Applicable Edition of Se	ction XI _ 2001	A	ddenda	2003		
12. Date/Revision of Inspect	ion Plan: 1/2-AI	M-2039. Revi	ision 11			

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 1R20. 1R20 was the second outage in the 1st Period of the 4th Ten-Year Interval. All of the ASME XI examination percentage requirements have been fulfilled for the 1st 40-Month Period.

14. Abstract of Results of Examination and Tests. See text of summary report.

15. Abstract of Corrective Measures. The only corrective measures resulting from the scheduled ASME XI ISI examinations in 1R20 were associated with the containment liner. All of the reported 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.

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 D	ate N/A
Date 1-13-11 Signed	FirstEnergy Nuclear O	perating Co. By	, Brabl
	(Owner)		
		NANDOMIAN	
CERTIFIC2	ATE OF INSERVICE	INSPECTION	
I, the undersigned, holding a valid commission iss	ued by the National Bo	ard of Boiler and Pr	essure Vessel Inspectors
and the State or Province of Pennsylvan	ia and employ	ed by	HSB CT of
Connecticut have inspec	ted the components des	cribed in this Owne	r's Report during the period
5/22/2009 to 11/05	5/2010 and sta	te that to the best of	my knowledge and belief, the
Owner has performed examinations and tests and t	aken corrective measur	es described in this	Owner's Report in accordance
with the Inspection Plan and as required by the AS	ME Code, Section XI.		
By signing this certificate neither the Inspector	nor his employer make	any warranty, expr	essed or implied, concerning
the examinations, tests, and corrective measures de			
nor his employer shall be liable in any manner for	any personal injury or	property damage or	a loss of any kind arising
from or connected with this inspection.			
Dear D. hyper	Commissions		28 ANIB, PA 2384
Inspector's Signature		National Board, State	e, Province and Endorsements
Dean S. hypefic Inspector's Signature Date /-14-11			
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OUTAGE SUMMARY

During the Twentieth Refueling Outage (1R20) 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 second outage in the first period of the fourth ten year interval. The examinations were based on ASME Section XI, 2001 Edition, 2003 Addenda.

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

1. Forty-six (46) Class 1 exams were performed and are divided as follows:

a. Welds (vessels, piping, and attac	chme	ents)
Ultrasonic Exams	-	19
Penetrant Exams	-	2
Visual Exams	-	4
b. Class 1 bolting		
Visual Exams	-	3
c. Visual Examinations (VT-3)		
Pipe Supports		5
Component Supports	-	2
d. RI-ISI piping VT-2 Exams	-	11

2. Forty-seven (47) Class 2 exams were performed and are divided as follows:

a. Welds (vessels, pump	ps, piping, and atta	chments)
Ultrasonic Exam	ıs – 1	6
Penetrant Exams	; -	1
b. Visual Examinations	(VT-3)	
Pipe Supports	-	5
c. RI-ISI piping VT-2 e	xams - 2	25

3. Five (5) visual exams of Class 3 components were performed and are divided as follows:

a. Supports, visual exams	-	4
b. Attachments, visual exam	-	1

4. Fifty-one (51) IWE exams were performed as follows:

a. Liner	- 1 (General Visual)
b. Moisture Barrier	- 1 (General Visual)
c. Previous liner repair	- 1 (UTT)
d. Non-Random liner exams	- 10 (UTT)
e. Random liner exams	- 38 (UTT)

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 1R20 IWE examinations included a general visual of the accessible areas of the liner plate and moisture barrier. This examination was performed per a corrective action associated with the containment liner through-wall discovered during 1R19. The corrective action also included a thickness examination of the replacement plate. Both examinations found no conditions that would challenge the structural integrity of the containment liner. Paint repairs were required.

According to licensing renewal commitments, UT thickness examinations were performed on the BV1 containment liner. Ten (10) non-random and thirty-eight (38) 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 1R20. All Class 1 bolted connections associated with insulated components were examined during 1R20. Also, Class 2 and 3 system functional and system inservice tests were performed in accordance with 40-month pressure testing requirements.

Deficiency Resolution

The deficiencies associated with the 1R20 containment liner general visual examination were documented and resolved on Condition Reports 10-83594, 10-84446, 10-84569, 10-84570, and 10-84791. The conditions identified were surface related and did not constitute structural deficiencies. All but three of the forty deficiencies were repaired in 1R20. The repair activities were limited to repainting and one caulking repair. The three deficiencies deferred until the next outage were evaluated by the coating engineer and determined to have no impact on the integrity of the liner. The deficiencies that required paint removal prior to repair were examined by a qualified VT-3 examiner and UT examinations were performed on deficiencies where evidence of corrosion (rust) was present. The visual examination did not identify any evidence of liner plate degradation and the ultrasonic thickness measurements found the liner thickness greater than the nominal wall plate thickness in these areas.

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.

Summary_No	Component_ID	Description	Class	Category	ltem	Method	lso	Status
033350	CH-102	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0246A-3	В
036750	CH-103	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0247A-3	В
040050	CH-104	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0248A-3	В
078650	RC-055	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0348B-2	В
084100	RC-72-R-6	SUPPORT	1	F-A	F1.10R	VT-3	0348C-1	С
085450	RC-056	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0348D-1	В
089000	RC-72-7-F-09	BUTT WELD	1	R-A	R1.11	UT	0348D-1	с
089100	RC-72-7-E-01	NOZZLE TO SAFE END	1	R-A	R1.11	UT	0348D-1	С
089200	RC-104-1-E-01	NOZZLE TO SAFE END	1	R-A	R1.11	UT	0350A-4	С
089300	RC-104-1-F-01	BUTT WELD	1	R-A	R1.11	UT	0350A-4	С
094200	RC-104-2-PSSP-122A	SNUBBER	1	F-A	F1.10N	VT-3	0350A-4	с
094300	RC-104-2-PSSP-122B	SNUBBER	1	F-A	F1.10N	VT-3	0350A-4	с
095100	RC-97-1-E - 01	NOZZLE TO SAFE END	1	R-A	R1.11	UT	0350B-3	С
095200	RC-97-1-F-01	BUTT WELD	1	R-A	R1.11	UT	0350B-3	С
095500	RC-97-1-A-01	WELDED ATTACHMENT SUPPORT SH-50	1	B-K	B10.20	PT	0350B-3	С
095600	RC-97-SH-50	SUPPORT	1	F-A	F1.10S	VT-3	0350B-3	С
096500	RC-98-1-E-02	NOZZLE TO SAFE END	1	R-A	R1.11	UT	0350B-3	С
096600	RC-98-1-F-01	BUTT WELD	1	R-A	R1.11	UT	0350B-3	С
097900	RC-99-1-E-03	NOZZLE TO SAFE END	1	R-A	R1.11	UT	0350B-3	С
098000	RC-99-1-F-01	BUTT WELD	1	R-A	R1.11	UT	0350B-3	С
109001	1NR-01	NON-RANDOM LINER 01	MC	IWE	E4.12	UTT	N/A	С
109002	1NR-02	NON-RANDOM LINER 02	MC	IWE	E4.12	UTT	N/A	С
109003	1NR-03	NON-RANDOM LINER 03	MC	IWE	E4.12	UTT	N/A	С
109004	1NR-04	NON-RANDOM LINER 04	MC	IWE	E4.12	UTT	N/A	С
109005	1NR-05	NON-RANDOM LINER 05	MC	IWE	E4.12	UTT	N/A	С
109006	1NR-06	NON-RANDOM LINER 06	MC	IWE	E4.12	UTT	N/A	С
109007	1NR-07	NON-RANDOM LINER 07	MC	IWE	E4.12	UTT	N/A	С
109008	1NR-08	NON-RANDOM LINER 08	MC	IWE	E4.12	UTT	N/A	С
109009	1NR-09	NON-RANDOM LINER 09	MC	IWE	E4.12	UTT	N/A	С
109010	1NR-10	NON-RANDOM LINER 10	MC	IWE	E4.12	UTT	N/A	С
109030	1RN-020	RANDOM LINER 20	MC	IWE	E4.12	UTT	Plate J5	с
109035	1RN-025	RANDOM LINER 25	MC	IWE	E4.12	UTT	Plate K8	С
109036	1RN-026	RANDOM LINER 26	MC	IWE	E4.12	UTT	Plate K11	С
109039	1RN-029	RANDOM LINER 29	MC	IWE	E4.12	UTT	Plate L4	С
109040	1RN-030	RANDOM LINER 30	MC	IWE	E4.12	UTT	Plate L5	С
109041	1RN-031	RANDOM LINER 31	MC	IWE	E4.12	UTT	Plate L7	С

Summary_No	Component_ID	Description	Class	Category	ltem	Method	lso	Status
109044	1RN-034	RANDOM LINER 34	MC	IWE	E4.12	UTT	Plate N2	C Ì
109046	1RN-036	RANDOM LINER 36	MC	IWE	E4.12	UTT	Plate N7	С
109047	1RN-037	RANDOM LINER 37	MC	IWE	E4.12	UTT	Plate N8	С
109049	1RN-039	RANDOM LINER 39	MC	IWE	E4.12	UTT	Plate O4	С
109050	1RN-040	RANDOM LINER 40	MC	IWE	E4.12	UTT	Plate O9	С
109051	1RN-041	RANDOM LINER 41	MC	IWE	E4.12	UTT	Plate O11	С
109052	1RN-042	RANDOM LINER 42	MC	IWE	E4.12	UTT	Plate O11	С
109057	1RN-047	RANDOM LINER 47	MC	IWE	E4.12	UTT	Plate Q8	С
109058	1RN-048	RANDOM LINER 48	MC	IWE	E4.12	UTT	Plate Q8	С
109060	1RN-050	RANDOM LINER 50	MC	IWE	E4.12	UTT	Plate Q11	С
109062	1RN-052	RANDOM LINER 52	MC	IWE	E4.12	υττ	Plate R5	· C
109063	1RN-053	RANDOM LINER 53	MC	IWE	E4.12	UTT	Plate R5	С
109064	1RN-054	RANDOM LINER 54	MC	IWE	E4.12	UTT	Plate R7	С
109065	1RN-055	RANDOM LINER 55	MC	IWE	E4.12	UTT	Plate R8	С
109066	1RN-056	RANDOM LINER 56	MC	IWE	E4.12	UTT	Plate R9	С
109067	1RN-057	RANDOM LINER 57	MC	IWE	E4.12	UTT	Plate S3	С
109068	1RN-058	RANDOM LINER 58	MC	IWE	E4.12	UTT	Plate S7	С
109069	1RN-059	RANDOM LINER 59	MC	IWE	E4.12	UTT	Plate S8	С
109070	1RN-060	RANDOM LINER 60	MC	IWE	E4.12	UTT	Plate S9	С
109072	1RN-062	RANDOM LINER 62	MC	IWE	E4.12	UTT	Plate T7	С
109073	1RN-063	RANDOM LINER 63	MC	IWE	E4.12	UTT	Plate T10	С
109074	1RN-064	RANDOM LINER 64	MC	IWE	E4.12	UTT	Plate U2	С
109075	1RN-065	RANDOM LINER 65	MC	IWE	E4.12	UTT	Plate U5	С
109077	1RN-067	RANDOM LINER 67	MC	IWE	E4.12	UTT	Plate U11	С
109078	1RN-068	RANDOM LINER 68	MC	IWE	E4.12	UTT	Plate V2	С
109079	1RN-069	RANDOM LINER 69	MC	IWE	E4.12	UTT	Plate W1	С
109080	1RN-070	RANDOM LINER 70	MC	IWE	E4.12	UTT	Plate W4	С
109081	1RN-071	RANDOM LINER 71	MC	IWE	E4.12	UTT	Plate W5	С
109082	1RN-072	RANDOM LINER 72	MC	IWE	E4.12	UTT	Plate W6	С
109083	1RN-073	RANDOM LINER 73	MC	IWE	E4.12	UTT	Plate W9	С
109084	1RN-074	RANDOM LINER 74	MC	IWE	E4.12	UTT	Plate W11	С
109085	1RN-075	RANDOM LINER 75	MC	IWE	E4.12	UTT	Plate W12	С
130950	RC-026	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0354A-1	В
133050	RC-027	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0354B-1	В
135050	RC-028	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0354C-1	В
148000	DLW-PRESS-2-F-38	BUTT WELD	1	R-A	R1.11	UT	0999D-2	С

Summary_No	Component_ID	Description	Class	Category	Item	Method	lso	Status
151050	1RV-BMI-PENE-OD	RV LOWER HEAD BMI NOZZLES	1	N-722	B15.80	UT	E-001D-2	В
169440	RC-R-1-NUT-1 TO 19	BOLTING	1	B-G-1	B6.10	VT-3	E-001L-1	С
175240	RC-R-1-WASHER-1 TO 19	BOLTING	1	B-G-1	B6.50	VT-3	E-001L-1	С
180950	1RV-HEAD-OD	VESSEL HEAD OD SURFACE	1	N-729	B4.30	VE	E-001D-2	В
191500	RC-E-1A-C-1	CIRCUMFERENTIAL WELD	1	B-B	B2.40	UT	E-001N-4	С
192600	RC-TK-1-RADIUS-1	NOZZLE INSIDE RADIUS	1	B-D	B3.120	UT	E-001P-3	С
192700	RC-TK-1-RADIUS-2	NOZZLE INSIDE RADIUS	1	B-D	B3.120	UT	E-001P-3	С
192800	RC-TK-1-RADIUS-3	NOZZLE INSIDE RADIUS	1	B-D	B3.120	UT	E-001P-3	С
192900	RC-TK-1-RADIUS-4	NOZZLE INSIDE RADIUS	1	B-D	B3.120	UT	E-001P-3	С
193000	RC-TK-1-RADIUS-5	NOZZLE INSIDE RADIUS	1	B-D	B3.120	UT	E-001P-3	С
193100	RC-TK-1-RADIUS-6	NOZZLE INSIDE RADIUS	1	B-D	B3.120	VT-2	E-001P-3	В
193150	RC-TK-1-HTR-SLEEVES	PZR HEATER SLEEVE	1	WCAP	OG09140	VT-2	E-001P-3	В
194900	RC-TK-1-SS-1	SKIRT SUPPORT	1	F-A	F1.40E	VT-3	E-001P-3	С
195000	RC-TK-1-SS-2	STRUCTURAL SUPPORT	1	F-A	F1.40E	VT-3	E-001P-3	С
199800	RC-P-1B-B(S)-1 TO 12	BOLTING	1	B-G-2	B7.60	VT-1	E-001R-1	С
207600	RC-P-1A-A-2	WELDED SUPPORT	1	B-K	B10.30	PT	E-001T-2	С
273600	RH-1-3-F-05	BUTT WELD	1	R-A	R1.11	UT	0074A-3	L
317600	1SI-22	VALVE BODY	1	B-M-2	B12.50	VT-3	0223B-5	С
320250	SI-047B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0375C-5	В
324350	SI-045B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0375E-5	В
328550	SI-046B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	0375F-7	В
329700	SI-73-7-HSS-418	SNUBBER	1	F-A	F1.10N	VT-3	0375F-7	С
371400	WFPD-23-3-HSS-207	SNUBBER	2	F-A	F1.20N	VT-3	0062B-5	· C
391150	[°] SI-056B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0192A-6	В
397750	SI-051A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0192A-6	В
397950	SI-051C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0192A-6	В
420150	CH-021C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	В
420250	CH-021B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	В
422650	CH-020B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	В
422750	CH-020C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	В
425050	CH-019B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	В
425250	CH-019C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0265A-7	В
434750	SI-061B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0275A-3	В
436050	CH-121	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0267A-5	В
440050	CH-122	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0267A-5	В
443850	CH-123	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0267A-5	В

Summary_No	Component_ID	Description		Category	ltem	Method	lso	Status
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	В
509250	CH-028	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0273A-3	В
520950	SI-058B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0273B-7	В
593400	SI-7-1-A-01	WELDED ATTACHMENT SUPPORT VS-13	2	C-C	C3.20	PT	0083A-3	С
614800	SI-2-6-S-03	PIPE WELD	2	R-A	R1.11	UT	0083C-6	С
658900	SHP-56-3-HSS-202	SNUBBER	2	F-A	F1.20N	VT-3	0001A-1	С
659100	SHP-56-3-HSS-203	SNUBBER	2	F-A	F1.20N	VT-3	0001A-1	С
681400	SHP-58-5-S-48	PIPE WELD	2	R-A	R1.11	UT	0002C-1	С
685350	SHP-31-1-F-13	PIPE WELD	2	R-A	R1.11	UT	0082A-1	С
707550	RH-009	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0075A-5	В
709250	RH-004	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0075A-5	В
711650	RH-13-1-F-02	PIPE WELD	2	R-A	R1.11	UT	0075B-3	В
718350	RH-14-7-SH-41	SUPPORT	2	F-A	F1.20S	VT-3	0207A-3	с
789774	RS-7-2-L-285	LONGITUDINAL WELD	2	R-A	R1.11	UT	0084A-3	С
789775	RS-7-2-F-03	PIPE WELD	2	R-A	R1.11	UT	0084A-3	L
789846	RS-8-2-L-271	LONGITUDINAL WELD	2	R-A	R1.11	UT	0084A-3	С
789847	RS-8-2-F-07	PIPE WELD	2	R-A	R1.11	UT	0084A-3	L
853100	CC-527-PSSP-300A	SNUBBER	3	F-A	F1.30N	VT-3	0285A-3	С
853200	CC-527-PSSP-300B	SNUBBER	3	F-A	F1.30N	VT-3	0285A-3	С
865500	FC-5-RH-2	SUPPORT	3	F-A	F1.30H	VT-3	0071A-1	С
888300	WR-53-3-A-01 TO 02	WELDED ATTACHMENT SUPPORT A-92	3	D-A	D1.20	VT-1	0224A-2	С
888400	WR-53-A-92	SUPPORT	3	F-A	F1.30A	VT-3	0224A-2	С
903250	QS-P2-K-L-53	LONGITUDINAL WELD	2	R-A	R1.11	UT	0111A-9	С
903300	QS-P2-K-S-0J	PIPE WELD	2	R-A	R1.11	UT	0111A-9	С
903997	QS-4-10G-HSS-202	SNUBBER	2	F-A	F1.20N	VT-3	0111A-9	С
908200	QS-3-13A-S-02	PIPE WELD	2	R-A	R1.11	UT	0113A-10	L
908250	QS-3-13A-L-197	LONGITUDINAL WELD	2	R-A	R1.11	UT	0113A-10	С
908300	QS-3-13A-S-01	PIPE WELD	2	R-A	R1.11	UT	0113A-10	L
910550	QS-P-2D-L-178	LONGITUDINAL WELD	2	R-A	R1.11	UT	0113B-3	С
910600	QS-P2-D-S-0N	PIPE WELD	2	R-A	R1.11	UT	0113B-3	С
913850	QS-9-1-F-01	PIPE WELD	2	R-A	R1.11	UT	0111C-3	L
913870	CH-120	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	0170B-3	В
914850	CH-051	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1254A-4	В
916250	CH-050A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1254A-4	В
929500	CH-095	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1518A-1	В

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Summary_No	Component_ID	Description	Class	Categor	y Item	Method	lso	Status
929600	CH-096	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1538A-1	В
929700	CH-097	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	1510A-1	В
930000	1CNMT-LINER	CONTAINMENT LINER	MC	E-A	E1.11	GV	N/A	В
930015	1CNMT-LINER-AREA-R	1R19 LINER REPLACEMENT	MC	E-A	E1.11	UTT	N/A	с
930100	1CNMT-MOISTBARR	MOISTURE BARRIER	MC	E-A	E1.30	GV	N/A	В

APPENDIX II

REPAIR / REPLACEMENT ABSTRACT AND NIS-2 FORMS

NIS-2 ABSTRACT

FORM NO.	<u>ASSET NUMBER</u>	<u>ORDER NO.</u>	<u>COMMENTS</u>
1850	REJ-1RW-24A	200135466	Installed
2063	1RW-57	200233562	Installed
2091	1CCR-5	200267243	Installed
2092	1CCR-6	200274642	Installed
3009	1RW-59	200250894	Corrected
3129	1SI-24	200298746	Installed
3149	1RH-P-1B	200209848	Installed
3164	RV-1RC-551A	200372718	Installed
3210	1MS-18	200383397	Installed
3211	REJ-1RW-4A1	200339325	Installed
3212	1RS-E-1A	200375743	Corrected
3213	1RS-E-1C	200375745	Corrected
3216	1VS-E-4B	200323026	Installed
3236	1RW-106	200375747	Installed
3239	NRV-1MS-101B	200308441	Installed
3248	1DLO-28	200387923	Installed
3252	1RW-32	200383348	Installed
3254	1RW-30	200383347	Installed
3256	1EE-EG-1-ENGINE	200373908	Corrected
3257	1EE-EG-2-ENGINE	200373909	Corrected
3273	WR-610	200402653	Installed
3275	1CH-84	200412068	Corrected
3286	WR-560	200415220	Corrected
3291	WR-5	200425159	Corrected
3293	1RH-E-1A	200429434	Corrected
3294	1RH-200	200432353	Corrected
3295	MOV-1RW-103B	200368067	Corrected
3296	1FW-627	200432665	Installed
3297	1SI-22	200432381	Installed
3303	RV-1CH-203	200410051	Installed
3304	RV-1RH-721	200296268	Installed
3305	RV-1CH-382B	200369665	Corrected
3306	RC-HC-10C	200371901	Installed
3309	1QS-4	200432540	Installed
3312	RV-1QS-100B	200372724	Corrected

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			Report Numbe		RTL #A4.414A			
1. Owner	F.E.N.O.C			Date	12/01/2010			
1	(NAME)							
76 South N	Main Street – Akro	n. OH 44308		Shee	t <u>1</u>	of	1	
	(ADDRESS)			1	No.			
2. Plant	Beaver Valley Pc	wer Station (BVF	PS)				<u> </u>	
	Shippingport, PA	15077				# 20013		
	(ADDRESS)				Repair/Replacement	Organization	P.O. No., Job No., etc.	
3. Work Perfo	rmed By <u>BVPS –</u>	Construction (NAME)		Туре	Code Symbol	Stamp	<u>N/A</u>	
	Shippingport, PA	15077	. <u></u>	Autho	prization No		N/A	
	(ADDRESS)			 Expira	ation Date		N/A	
4. Identificatio	n of System <u>Riv</u>	ver Water (Q3)						
(b) Applicabl	Construction Code <u>A</u> e Edition of Section XI e Section XI Code Cas	Utilized for Repair/Re				la, <u>N/A</u> C	ode Case	
6. Identificatio	n of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	-	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Expansion Joint	Garlock	04-3532	N/A		REJ-1RW- 24A	1994	Removed	No
Expansion Joint	Garlock	06-0089	N/A		REJ-1RW- 24A	2006	Installed	No
Stud	Nova Machine	N/A	N/A		HT# P918	2005	Installed	No
7. Description	7. Description of Work Replacement of REJ and Flange Studs with like kind							
8. Tests Conducted: Hydrostatic* Pneumatic* Nominal Operating Pressure Exempt C 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 <u>1850</u> RTL #A4.414A
9. Remarks Previous NIS-2 Data Report # 631. Expansion Joint PO# 45177541 and Stud PO# 47082958 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 1, 20 10 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underline{\int -2/-0\hat{f}}$ to $\underline{//-4/-0}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspectors Signature Commissions <u>JB9428 A JIB</u> <u>P42384</u> National Board, State, Province, and Endorsements
Date $12 - 3, 20 10$

					F	orm No.		2063
F0		NER'S REPORT red by the Provis					ΓΙVITY	
1. Owner	F.E.N.O.C		_	Date		April 1	2, 2010	
	lain Street – Akr (ADDRESS)		_	Sheet	1	01	f	2
2. Plant	Beaver Valley F	ower Station (BV	<u>(PS)</u>	Unit No.			1	
	Shippingport, P.	A 15077					00233562	
	(ADDRESS)	×		R	epair/Replacemei	nt Organizatio	п Р.О. No., Job N	lo., etc.
. Work Perfor	med By <u>BVPS</u>	Maintenance		Туре Со	de Symbo	l Stamp	<u> </u>	N/A
	Shippingport, P.	A 15077		Authoriz	ation No.		N/A	
	(ADDRESS)			Expiratio	on Date		£¢	
Identificatior	n of System	River Water (Q	3)					
(b) Applicable (c) Applicable		.,					<u>N/A</u> Code (Case
Name of Component	Name of Manufacturer	Manufacturer Serial No,	National Boa No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	C & S Valve	92-2019-059-012	N/A		IRW-57	1992	Removed	No
Check Valve	Crane Nuclear	D8081	N/A		IRW-57	2008	Installed	Yes
						-		
7. Description of	of Work <u>Rep</u>	aced valve, studs	s/nuts.					
 Tests Condu 	icted: Hydros Other [tatic* 🗌 Pneur] Pressure _				-		empt 🗌

FORM NIS-2 (Back)

9. Remarks <u>Code Data Report attached. Previous NIS-2 Data Report Nos: 1550, 1458, and 508.</u> Applicable Manufacturer's Data Reports to be attached An ASME Section III, Class 3, 1974E-S'74A valve was installed into an ANSI B31.1 system.

Replacement 1-1/8" Studs: PO 45243289 / Ht. #OZ84, PO 45189502 / Ht. #191C, PO 7123870 /

Ht. #J218; Nuts: PO 47176549 / Ht. #Z149.

CERTIFIC	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 <u>N/A</u>		_							
		A1/A							
Certificate of Authorization No <u>N/A</u>	Expiration Date _	N/A							
Signed <u>Thomas White</u> Owner or Owner's Designee, Title	Staff Specialist	Date <u>April 23</u> , 20	10						

CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this
Owner's Report during the period $5-2/-09$ to $4/-30-70$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Ded N S. NIZNAK, Leon J. Mynuch Insperior's Signature Commissions I, N, PA2384 National Board, State, Province, and Endorsements
Date $4-30-$, 20/0

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

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Pg. 1 of 2

1.	Manufactured and	I certified by <u>CRANE N</u>	luclear, Inc., 860 R	emington Boule	vard, Bolingbr	ook, IL 60440					
2.	Manufactured for	First Energy, PO Box 4	4, Shippingport, PA	•							
			(1	name and address of	purchaser)						
3.	Location of installation Beaver Valley Nuclear Power Plant, Route 168, Shippingport, PA 15077 (name and address)										
4.	Model No., Series	No., or Type	M1291-00 Dra	wing CE	302778	Rev. <u>C</u>	_ CRN _	<u>N/A</u>			
5.	ASME Code, Sec	tion III, Division 1:	1974 (edition)	Summer 1974 (addenda date)		3 class)	N/A (Code Ca				
6.	Pump or valve	Duo-Check	Nominal	inlet size	20*	Outlet size	20				
7.	Material:										
•	(a) valve Body (b) pump Casti		Bonnet Cover	N/A ~	Disk SA: Bolting	351 CF3M	Bolting	N/A			
•	(a) Cert.	(b) Nat'l	 (c) Body/Cas	ing	(d) Bonnet/Cove	er	(e) Disk				
	Holder's Serial No.	Board No.	Serial No.		Serial No.		Serial No.				
	D8081	N/A	D8082		N/A		D8083 D8084				
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* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ 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 NPV-1 (Back) --- Pg. 2 of 2

		Cert	Certificate Holder's Serial No.					
8	Design conditions	N/A (pressure	N/A (temperature)	or valve p	ressure cla	ss	150	
9.	. Cold working pressure	275	·					
10.	Hydrostatic test	425	Disk differential	test pressure		305		
11.	Pin Retainer: material S	3494-01, PO No. 45272 A 479 GR 316, HL# AUF	1			·····		
		CER	TIFICATION OF DESI	GN				
Desig	gn Specifications certified I	у W.J.	Parker	P.E. State	PA	Reg. no.	29003-E	
Desig	gn Report certified by	N/A	·····	P.E. State	<u>N/A</u>	Reg. no.	N/A	
l Ce	rtificate of Authorization No	o. <u>N</u>		 ۱	September	24, 2011	-11	
Date	12/30/08 Nat		Juclear, Inc. Cate Holder)	Signed 10	Jo	nized representa thn E Sirovalka QA Engineer	allec	
			FICATE OF INSPECT					
	undersigned, holding a va or Province of		y the National Board o and employed by	f Boiler and P	ressure Ve HSE	•	ors and the	
	Hartford, CT tate that to the best of my he ASME Code, Section II	knowledge and belief, th	pump, or valve, descril ne Certificate Holder ha -					•
отр	gning this certificate, neithe onent described in this Da ersonal injury or property o	ta Report. Furthermore,	neither the inspector i	or his emplo	yer shall be	liable in an		
)ate	12/30/08Signed	Authorized Nuclear Inspecto Robert Rainey	Commissions	(Nal'i, Bd. (in	. IL Id. endorseme	932 hts) and state or	prov. and no.)	

FC	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					Report Number 2091					
1. Owner	F.E.N.O.C (NAME)	· · · · · · · · · · · · · · · · · · ·		Date <u>10/23/10</u>						
	(NAME) Main Street – Akro (ADDRESS)			Sheet1 Unit No.						
2. Plant										
	Shippingport, PA (ADDRESS)	15077		Repair/Replacemen	rder #2 t Organizatio	0024 (243 00274643 /2 n P.O. No., Job No., e	<u>] i/25/</u> 11 tc.			
3. Work Perfo	rmed By <u>FENOC</u>	Maintenance	}	Type Code Symbol	Stamp	N/A	<u>\</u>			
	Shippingport, PA	15077		Authorization No		N/A	<u> </u>			
	(10211200)			Expiration Date		N/A	<u></u>			
4. Identificatio	n of System <u>Co</u>	mponent Cooling	(Q3)							
(b) Applicabl (c) Applicabl		Utilized for Repair/Re		<u>'73</u> Addenda,Code Case tivity <u>2001E-2003A</u>						
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	Mission Drilling		N/A	1CCR-5	1976	Removed	No			
Check Valve	Mission Drilling	34709	N/A	1CCR-5	1976	Installed	No			
· · · · · · · · · · · · · · · · · · ·										
7. Description	of Work <u>Replace</u>	d valve with spare	9							
8. Tests Condi	Other [matic* 🗌 	Nominal Operating	-	ure 🛛 Ex	kempt ☐ °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 2091
9. Remarks <u>No Code Data Report available.</u> 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 <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A Signed T. White How Staff Specialist Date October 24, 20 10 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this
Owner's Report during the period $5^2 - 2l - 0l$ to $20 - 26 - 10$, and state that to thebest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 <u>I, N, P</u> ,42384 National Board, State, Province, and Endorsements
Date, 20 / 0

FC	ORM NIS-2 OW	/NER'S REPO As Required by the					IENT ACTI	VITY			
NOP-CC-5703-02 Rev. 00					Report Number 2092						
1. Owner	. Owner										
76 South M	Main Street – Akro (ADDRESS)	<u>n. OH 44308</u>		Sheet <u>1</u> of <u>1</u> Unit No. <u>1</u>							
2. Plant	Beaver Valley Po	wer Station (BVF	<u>28)</u>								
	Shippingport, PA (ADDRESS)	15077	<u> </u>				D0274642 n P.O. No., Job No., e				
3. Work Perfo	rmed By <u>FENOC</u>	Maintenance		Тур	e Code Symbol	Stamp	N/A	<u> </u>			
	Shippingport, PA (ADDRESS)	15077			horization No						
4 Identificatio	n of Svotom Co	moonont Cooling	(02)	Exp	piration Date _		<u>N/A</u>				
4. Identificatio	Construction Code A	mponent Cooling		S'73 /	Addenda,Code Case						
(b) Applicabl (c) Applicabl	e Edition of Section XI le Section XI Code Cas	Utilized for Repair/Re									
6. Identificatio	n of Components										
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)			
Check Valve	Mission Drilling	34709	N/A		1CCR-6	1976	Removed	No			
Check Valve	Crane Nuclear	D9028	N/A		1CCR-6	2010	Installed	No			
7. Description	of Work <u>Replace</u>	d valve with spare	e			<u> </u>					
8. Tests Cond	Other	_	umatic* 🗌		ominal Operating psi Tes	-	ure 🛛 E	xempt [] °F			

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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 2092
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 <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A Signed T. White Image: Staff Specialist Date October 23, 20 10 Owner or Owner's Designee, Title Title Image: Staff Specialist Date October 23, 20 10
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this
Owner's Report during the period $5-2/-09$ to $10-26-20$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Aeaa}_{Inspector's Signature} Commissions \underbrace{F_{rot}}_{National Board, State, Province, and Endorsements} $
Date <u>/0~26</u> , 20 <u>/0</u>

FC	ORM NIS-2 OW	/NER'S REPO As Required by the					IENT ACTI	VITY	
NOP-CC-5703-02 Rev. 00 Report Number 3009 RTL #A4.414.									
1. Owner F.E.N.O.C Date November 12, 2010									
76 South N	Main Street – Akro (ADDRESS)	n, OH 44308		i	et1 No				
2. Plant	Beaver Valley Po (NAME)	ower Station (BVF	<u>2S)</u>						
	Shippingport, PA (ADDRESS)	15077					00250894 n P.O. No., Job No., e	etc.	
3. Work Perfo	rmed By <u>BVPS V</u>	(NAME)	<u></u>	Туре	e Code Symbo	l Stamp	N/A	<u> </u>	
	Shippingport, PA (ADDRESS)	15077			orization No.				
4 Identificatio	n of System Riv	ver Water (03)		•	ration Date				
5. (a) Applicable (b) Applicabl (c) Applicabl	 4. Identification of System <u>River Water (Q3)</u> 5. (a) Applicable Construction Code <u>Section III</u> 19 74 Edition, <u>S'74</u> Addenda, <u>Code Case</u> (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>2001E-2003A</u> (c) Applicable Section XI Code Case(s): N/A 6. Identification of Components 								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Check Valve	Crane Nuclear	D0479	N/A		1RW-59	2002	Corrected	Yes	
			·						
7. Description	of Work <u>Replace</u>	d valve flange stu	ids/nuts.						
8. Tests Cond	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 3009 RTL #A4.	<u>414A</u>
9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1562. Replaced 1-1/8" Studs:	
Applicable Manufacturer's Data Reports to be attached PO 45305063 / Ht. # 3B26, PO 47217400 / Ht. # 2K15; Nuts: PO 45339118 / Ht. #4H71	
ASME Section III valve installed into an ANSI B31.1 system.	
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 <u>N/A</u>	
Certificate of Authorization NoN/A Expiration DateN/A	
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>December 1</u> , 20 <u>10</u> 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 Inspect and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this	tors
Owner's Report during the period $5-21-07$ to $1(-4-10)$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures describe this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	d in
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concert the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector net his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising or connected with this inspection.	or
Inspector's Signature Commissions NB9428 ANIB PA2384 National Board, State, Province, and Endorsements	
Date, 20	

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

	1.	Manufactured	d and cer	tified by	CRANE	Nuclear, In	c., 860 R	emin	gton Boulevar	d, Boling	gbrook, l	L 60440	
	2.												
	3.	Location of in	stallation	Beaver Valley Nucle	ar Plant, R	oute 168, OI	n-Site Stor (nam	eroon e and	n, Shippingport, address)	PA 1507	7		
	4.	Model No., Se	eries No.	, or TypeD00-I	M129I-00	Drav	ving		CB02778	Rev.		CRN _	N/A
	5.	ASME Code,	Section	III, Division 1:	1974 (edition)		ummer 1 (addenda da		3 (cla			N/ (Code Ca	
	6.	Pump or valv	e	Duo-Chek Valve		Nominal in	ilet size		(in.)	Outlet	size _	2((in	
1 ¹	7.	Material:			- .	b 1/2	D'.	1.	64264 6524		Delline	54479	TP 316A
			Body Casting	SA351 CF3M	Bonnet Cover	N/A	Dis Bol	к ting	SA351 CF3M	<u> </u>	Bolting		
		(a) Cert. Holder's Serial No.		(b) Nat'l Board No.		(c) 8ody/Casin Serial No.	g		(d) Bonnet/Cove Serial No.	 !ſ	·	(e) Disk Serial No.	
		D0479		N/A	····	D0480			N/A		D	0481 & D0	482
									······································				
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* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ 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.

This form (E00037) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

...

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

			Certificate Ho	der's Serial No	D. <u>-</u>	D0	479	
8	Design conditions(r	ressure	psi(tempe		or valve p	ressure class	ANSI 15	0
€.	Cold working pressure	275	psi at 10)0°F				
0.	Hydrostatic test	25 psi.	Disk differe	ntial test press	ure	305		psi
11.	Remarks: PO No. 7073812 Mark No. : Valve ID: VC101	, Rev. 0, Item No. 1 5-C-3	SO No. 1366	5-01				
					,, <u>,,,</u>			
		CERTIFI	CATION OF DE	SIGN				
esiç	on Specifications certified by	Walter Joseph	Parker, Jr.	P.E. State	· PA	Reg. no.	29003-E	-
esig	an Report certified by	N/A		P.E. State	N/A	Reg. no.	_N/A	_
Cei	tificate of Authorization No.	N-2	899	Expires	Septer	nber 24, 2002		-
ate	02/22/02 Name	CRANE Nuc (N Certificate		Signed		uthorized represent		
				/	Jer	ome A. Kurowski	, P.E. 	
		CERTIFIC	ATE OF INSPE	CTION				
tate f nd sl		nois an ve inspected the pur edge and belief, the (id employed by mp, or valve, de	Facto scribed in this	ry Mutua Data Re	Insurance Col port on(трапу)2/22/02	
ompo	ining this certificate, neither the i onent described in this Data Rep ersonal injury or property damag	ort. Furthermore, ne	either the inspec	tor nor his emp	oloyer sha	all be liable in a		ər
)ate	02/22/02 Signed	anisBush James Bush	Commission		incl. endors	IL 1077 ements) and state of	r prov. and no.)	

(1) For manually operated valves only.

FC		VNER'S REPO As Required by the				IENT ACTI	VITY
NOP-CC-5703-02	-		eport Number 3				RTL #A4.414A
				ate October 31, 2			
76 South N	<u>Aain Street – Akro</u> (ADDRESS)	on, OH 44308	1	neet1 nit No			
2. Plant	Beaver Valley Po	ower Station (BVP	<u>'S)</u>				
	Shippingport, PA (ADDRESS)	15077				00298746 n P.O. No., Job No., e	stc.
3. Work Perfo	rmed By <u>BVPS N</u>	Maintenance (NAME)	Ту	pe Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA (ADDRESS)	15077	1	thorization No			
1 Idantifiantia	n of Sustam So	fety Injection (Q1)		piration Date _		<u>N/A</u>	99 9 9
(b) Applicabl (c) Applicabl		NSI B16.5 1 Utilized for Repair/Re se(s): N/A					
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	Velan	N/A	N/A	1SI-24	1976	Corrected	No
Disc	Velan	N6948	N/A	Ht. #2AXP	2002	Installed	No
	-						
7. Description	of Work <u>Replace</u>	d valve disc.					
8. Tests Cond	Other [_	matic* 🗌 🛛 N	lominal Operatin psi Tes	-	ure [] E:	xempt ⊠ °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVIT As Required by the Provisions of the ASME Code Section XI	ſY
NOP-CC-5703-02 Rev. 00 Report Number <u>3129</u>	RTL #A4.414A
9. Remarks <u>No Code Data Reports available.</u> 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 Code, Section XI.	he ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>	
Signed <u>T. White</u> <u>He-LEO</u> <u>Staff Specialist</u> Date <u>November 12</u> , 20 Owner or Owner's Designee, Title	10
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underline{5^{-}-\underline{21^{-}09}}$ to $\underline{11^{-}-\underline{4^{-}10}}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	· ·
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied the examinations and corrective measures described in this Owner's Report. Furthermore, neither the ins his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind or connected with this inspection.	pector nor arising from
Date, 20 <u>/ 0</u>	

F	ORM NIS-2 OW	/NER'S REPC As Required by the					ENT ACTIV	ΊΤΥ
NOP-CC-5703-02		• •	Report Numbe					RTL #A4.414A
								·
. <u>76 South I</u>	Main Street – Akro (ADDRESS)	1	eet1 t No					
2. Plant	Beaver Valley Pc	wer Station (BVF	<u>PS)</u>					
	Shippingport, PA (ADDRESS)	15077				# 20020 Organization	9848 P.O. No., Job No., etc.	
3. Work Perfo	ormed By <u>BVPS –</u>	Maintenance (NAME)		Тур	e Code Symbol	Stamp	N/A	
	Shippingport, PA	15077	<u>.</u>	Aut	horization No		N/A	
	(ADDRESS)			Exp	piration Date _		N/A	
4. Identificatio	on of System <u>Re</u>	sidual Heat Rem	oval (Q2)					
(b) Applicabl	e Construction Code <u>A</u> le Edition of Section XI le Section XI Code Cas on of Components	Utilized for Repair/Re	-		dition, <u>S'72</u> Addend 2001E-2003A	a, <u>N/A C</u> oo	le Case	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Seal	Flowserve	N/A	N/A		HT# 248991	2010	Installed	No
Stud	Nova Machine	N/A	N/A		HT# 268F	2006	Installed	No
Pump	Ingersoll-Rand	1170-21	N/A		1RH-P-1B	1976	Corrected	No
7. Description	7. Description of Work Replace mechanical seal							
8. Tests Cond	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 3149 RTL #A4.414
9. Remarks <u>Previous NIS-2 1530. Seal PO# 4532439 HT# 248991 and Stud Po# 45211480</u> 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 1, 20 10 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 Inspector and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underbrace{5-2/-6?}_{5-2/-6?}$ to $\underbrace{-1/-46?}_{5-2/-6?}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described i this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Jean J.
Date 12.6-, 20 10

FC	ORM NIS-2 OW	/NER'S REPC					IENT ACTI	VITY	
NOP-CC-5703-02 Rev. 00 Report Number <u>3164</u> RTL #A4									
1. Owner					e <u>October 27, 2</u>				
76 South N	<u> 1ain Street – Akro</u> (ADDRESS)		eet1_						
2. Plant	Beaver Valley Po	ower Station (BVF	<u>PS)</u>						
	Shippingport, PA (ADDRESS)	15077	<u> </u>				00372718 n P.O. No., Job No., e	tc.	
3. Work Perfo	rmed By <u>BVPS C</u>	Construction Serv	ices	Тур	e Code Symbol	Stamp	N/A		
	Shippingport, PA (ADDRESS)	15077	<u></u>		horization No				
			• •		iration Date			<u> </u>	
	n of System <u>Re</u>								
(b) Applicabl (c) Applicabl	Construction Code S e Edition of Section XI e Section XI Code Ca n of Components	Utilized for Repair/Re					·		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Relief Valve	Target Rock	1	N/A		RV-1RC-551A	2005	Corrected	Yes	
Pilot Valve	Target Rock	2	N/A		N/A	2005	Removed	Yes	
Pilot Valve	Target Rock	1	N/A		N/A	2005	Installed	Yes	
7. Description	7. Description of Work Replaced pilot valve and inlet studs.								
8. Tests Condu	Other	_	imatic* 🗌		ominal Operating _ psi Tes		ure 🛛 E:	xempt [] °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 3164 RTL #A4.414A
9. Remarks <u>Code Data Reports attached</u> . <u>Pilot valve (S/N 2) was replaced by Target Rock under Purchase Order</u> Applicable Manufacturer's Data Reports to be attached
Applicable Manufacturer's Data Reports to be attached 55109371/4. Pilot valve (S/N 1) from Relief Valve S/N 3 was removed and installed into Relief Valve S/N 6 previously
by Target Rock. Pilot valve (S/N 1) was then removed from Relief Valve S/N 6 and installed into Relief Valve S/N 1
Code Data Report from Relief Valve S/N 3 showing pilot valve S/N 1 attached. Replacement 1-3/8" Studs: PO
<u>45297678 / Ht. #2U86.</u>
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>December 03</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-2(1-0)^2$</u> to <u>$1(-4-10)$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{ \underbrace$
Date $12-6-$, 20 10

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 cert	ified by <u>T</u>	arget Rock; (name and	1966E Br address o	oadhollow [f NV Certifica	<u>Rd.; E. Farmir</u> te Holder)	ngdale, NY 11735
2.	Manufactured for	First Energy;	Route 168; (name and ad	<u>Shipping</u> dress of F	port,PA ?urchaser)		
3.	Location of installation	Beaver Valle	<mark>γ Power Static</mark> (nan	on; Route	168; Shipping Iress)	port, PA	
4	Valve <u>0569C-001-1</u> (Model no., series	Orifice s	size <u>2.443</u> (in.)	_Nom. In	let size6	0 Outlet	size <u>6</u> (in.)
5.	ASME Code, Section II	l, Division 1:	<u>1968</u> (edition)	Sumr (adder	ner 1968 nda date)	A (class)	None (Code Case no.)
6.	Type <u>Pilot Operated</u> (spring, pilot or power operate	d) (set pressu	12 re, psig) (blowdd	0 own, psi)	650°F (rated temp	<u>3325</u>) (hydro t	at <u>100°F max.</u> est,psig,inlet)
7.	Identification <u>1</u> (Cert. Holder's s	erial no.)	<u>N/A</u> (CRN)	<u>0569C-0</u> (drav	<u>01 Rev. B</u> ving no.)	N/A (Natl'I. Bd. no.	2005 (year built)
8.	Control ring settings			N/A			
9.	Pressure retaining item	s: Serial I Identif	No. Or ication	ł	Mat'l. S ncluding Typ	pec. be or Grade	Tensile Strength
	Body	1_			SA351 CF	8M	75 ksi
	Bonnet or Yoke Support Rods	8			SA105		70 ksi
	Nozzle						140 ksi
	Spring Washers Adjusting Screws		······				
	Spindle					······	······
	Spring Bolting	See page	2 of 3				
	Other Items	See page	2 of 3			<u> </u>	
10.	Relieving capacity 345,0	<u>)00 lbs/hr</u> ov	erpressure a	s certified	I by the Nati	onal Board <u>(</u>	69C) 10/07/2005 (date)
11.	Remarks:						(uare)
						·····	
	·						
		_	ERTIFICATIO				
De	esign Specification certified	by <u>F.W. G</u>	ardner	P.E. S	State <u>PA</u>	_Reg. No. <u>036</u>	<u>614-E</u>
De	esign Report certified by	Not ap	plicable	P.E. State	<u>N/A</u> Re	eg. No. <u>N/A</u>	
		CE		F COMPL	IANCE		
W co	e certify that the statement nstruction of the ASME Co	s made in this de, Section II	s report are co I, Division 1.	rrect and t	hat this pump	or valve confo	rms to the rules for
N	Certificate of Authorization	No	N-1949		E	xpires <u>12/</u>	12/2007
Da	Certificate of Authorization te 12/16/2005	Name	Target Rock		S	igned	x 4
						(autnoriz	ed representative)
infoi the	* Supplemental information mation in items 1 through number of sheets is record	4 on this D	ata Report is i	or drawing ncluded or	s may be use 1 each sheet,	d provided (1) (3) each sheet	size is 8½ x 11, (2) is numbered and

1 . .

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRING 6/93

- .

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

(in.)

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 i	and address)				
4.	Valve_0569C-001-1	Orifice size	2.443	_ Nom. Inlet size_	6	Outlet size	6	

(Model no., series no.)

<u>2.443</u> (in.) Nom. Inlet size utlet size

(in.)

Pressure Re	taining Item	Serial No. or Identification	Material Spec. Including Type or Grade	Tensile Strength
Main Seat	200323-1	25	SA479 304L	70 ksi
Pilot Body	303839-2	2	SA479 304	75 ksi
Bonnet Cap	200324-1	8	SA105	70 ksi
End Cap	303835-1	5	SA479 316	75 ksi
Hex Nut	100-0076	n/a	SA194 2H	n/a
Hex Bult	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 5/N /

1	. Manufactured and certified by <u>Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735</u> (name and address of NV Certificate Holder)							
2	2. Manufactured for First Energy; Route 168; Shippingport, Pa (name and address of Purchaser)							
3	Location of installation <u>Beaver Valley Power Station; Route 168; Shippingport, PA</u> (name and address)							
4	. Valve 0569C-001-1 Orifice size 2.443 Nom. Inlet size 6 Outlet size 6 (in.) (in.)							
Γ	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 <u>New York</u> and employed by <u>OneBeacon America</u> <u>Insurance Company</u> of <u>Boston, MA</u> have inspected the pump, or valve, described in this Data Report on <u>Ia/I6/2005</u> , 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 Signed Commissions N.J. 5102 (Authorized Inspector) (Nat'l. Bd.(incl. endorsements) and state or prov. and no.)							

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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 certif	ied by <u>Ta</u>	irget Rock; (name and a	1966E Broaddress of N	adhollow F	ld.; E. Farmine e Holder)	dale, NY 11735
2.	Manufactured forF	irst Energy; (I	Route 168; name and add	Shippingpo dress of Pu	ort,PA rchaser)		
3.	Location of installation_B	eaver Valley	Power Statio (nam	n: Route 16	8; Shipping	port, PA	
4.	Valve <u>0569C-001-1</u> (Model no., series no	Orifice si	ze <u>2.443</u> (in.)	Nom. Inle	t size <u>6</u> (i	Outlet	size <u>6</u> (in.)
5.	ASME Code, Section III,	Division 1:	<u>1968</u> (edition)	Summe (addend	er 1968_ la date)	A (class)	None (Code Case no.)
6.	Type <u>Pilot Operated</u> (spring, pilot or power operated	2485) (set pressure	<u>12(</u> e, psig) (blowdo) wn, psi)	650°F (rated temp)	<u>3325</u> (hydro te	_at <u>100°F max.</u> st,psig,inlet)
7.	Identification <u>3</u> (Cert. Holder's se	rial no.)	N/A (CRN)	0569C-00 (drawir	<u>1 Rev. B</u> ng no.)	N/A (Nati'l. Bd. no.)	2005 (year built)
8.	Control ring settings			N/A		<u> </u>	
9.	Pressure retaining items	: Serial N Identific	lo. Or cation	Inc	Mat'l. S cluding Typ	pec. e or Grade	Tensile Strength
	Body Bonnet or Yoke Support Rods					3M	· · · · · · · · · · · · · · · · · · ·
·	Adjusting Screws	······································			SA 564 63	:0	140 ksi
	Spring Bolting Other Items	See page 2 See page 2	2 of 3 2 of 3				· · · · · · · · · · · · · · · · · · ·
	Relieving capacity <u>345.00</u> Remarks:				by the Natio	onal Board <u>(6</u>	9C) 10/07/2005 (date)
		CE	RTIFICATIO	ON OF DES	SIGN		
De	esign Specification certified t	oy <u>F.W. G</u> a	ardner	P.E. St	ate <u>PA</u>	_Reg. No. <u>036</u>	614-E
De	esign Report certified by	Not apr	olicable	P.E. State _	N/A Re	eg. No. <u>N/A</u>	
		CE	RTIFICATE O	FCOMPLI	ANCE		
W co	e certify that the statements nstruction of the ASME Cod	made in this e, Section III,	report are con Division 1.	rrect and the	at this pump	or valve confor	ms to the rules for
N	Certificate of Authorization N	10	N-1949	<u> </u>	E>	pires <u>12/1</u>	2/2007
Da	ate <u>12/20/2005</u>					(authorize	u representative)
info	* Supplemental information rmation in items 1 through	in form of list 4 on this Da	t s, s ketches, o ta Report is ir	or drawings ncluded on (may be use each sheet,	d provided (1) s (3) each sheet i	ize is 8½ x 11, (2) s numbered and

the number of sheets is recorded at the top of this form (12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRINT 6/93 Certificate Holder's Serial No. 0569C-001-1 s/n 3

1. Manufactured and certified by <u>Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735</u> (name and address of NV Certificate Holder)

- 2. Manufactured for <u>First Energy; Route 168; Shippingport, PA</u> (name and address of Purchaser)
- 3. Location of installation <u>Beaver Valley Power Station; Rout 168; Shippingport, PA</u> (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 R	etaining Item .	Serial No. or Identification	Material Spec. Including Type or Grade	Tensile Strength
Main Seat	200323-1	34	SA479 304L	70 ksi
Pilot Body	303839-2	1	SA479 304	75 ksi
Bonnet Cap	200324-1	9	SA105	70 ksi
End Cap	303835-1	4	SA479 316	75 kši
Hex Nut	100-0076	n/a	SA194 2H	n/a
Hex Bult	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 3

1.	. Manufactured and certified by <u>Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735</u> (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 <u>Beaver Valley Power Station; Route 168; Shippingport, PA</u> (name and address)
4.	. Valve 0569C-001-1 Orifice size 2.443 Nom. Inlet size 6 Outlet size 6 (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 <u>New York</u> and employed by <u>OneBeacon America</u> Insurance Company of <u>Boston, MA</u> have inspected the pump, or valve, described in this Data Report on $\sqrt{2-20-2005}$, 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 <u>NY. 5102</u> (Authorized Inspector) (Nat'l. Bd.(incl. endorsements) and state or prov. and no.)

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FC				REPAIRS/REP		NENT ACTI	VITY
NOP-CC-5703-02			Report Number	0040			RTL #A4.414A
1. Owner				Date <u>November</u> 1	17, 2010		
76 South M	<u> Main Street – Akrc</u> (ADDRESS)	on, OH 44308		Sheet			
2. Plant	Beaver Valley Po	ower Station (BVF	<u>2S)</u>				
	Shippingport, PA (ADDRESS)	15077	[Work Repair/Replaceme	Order #2 ant Organizatio	00383397 n P.O. No., Job No., e	etC.
3. Work Perfo	rmed By <u>BVPS N</u>	Maintenance (NAME)		Type Code Symbo	ol Stamp	f2 1 00383397 n P.O. No., Job No., etc. N/A N/A N/A N/A N/A N/A N/A N/A	<u>۸</u>
	Shippingport, PA (ADDRESS)	15077		Authorization No.			
4 Identificatio	n of Curtan Ma			Expiration Date		N/A	
		ain Steam (Q2)					
(b) Applicable (c) Applicable		Utilized for Repair/Re		tivity <u>2001E-2003A</u>	•	·	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or	ASME Code Stamped (Yes or No)
Nozzle Check	Enertech	11236	N/A	1MS-18	2002	Removed	Yes
Nozzle Check	Enertech	11076	N/A	1MS-18	2001	Installed	Yes
7. Description	of Work <u>Replace</u>	d valve with spare	9				
8. Tests Condu	Other		matic* 🗌	Nominal Operatii psi Te			xempt [] °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 3210 RTL #A4	1.414A
9. Remarks <u>Code Data Report attached</u> . <u>Previous NIS-2 Data Report No. 1725</u> . <u>Valve was supplied as ASME</u> Applicable Manufacturer's Data Reports to be attached Section III 1971E-S'72A but is installed in an ANS B31.1 system.	
CERTIFICATE OF COMPLIANCE	,
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASM Code, Section XI.	E
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>	
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>November 17</u> , 20 <u>10</u> 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 Inspect and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5^{-} - 2(-0)^{2}$ to $1(-4^{-}/0)$, and state that to the	ctors
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures describe this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ed in
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerns the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector relation his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising or connected with this inspection.	nor g from
Dean S. July Inspector's Signature Commissions <u>NB9428 ANIB PA2384</u> National Board, State, Province, and Endorsements	-
Date, 20 /ø	
· · · · · · · · · · · · · · · · · · ·	

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and c	ertified by Enerte	ch, A Div. o					t., Brea, CA 92821
		. –			ss of N Certificate Ho		
Manufactured for		rst Energy			11; Akron, OH	14309-36	
	D.			e and address			45077
3. Location of installati	on Bea	aver valley	Power S		ute 168; Shippi	ідроп, РА	15077
				(name and	04	E	Nana
4. Model No., Series N	о., or Туре	RV-Z	Drawing .	PD984	01 Rev	<u> </u>	CRN None
		1971		S72	3		None
5. ASME Code, Sectio	n III, Division 1:	(edition)		(addenda da			(Code Case no.)
	te Check Value			3		3	(Code Case IId.)
6. Pump or valve <u>Noz</u>		Nominal inlet	t size	(in.)	Outlet size	(in.)	· · · · · · · · · · · · · · · · · · ·
	SA-105	_	N/A		SA-479 Type 31	•	N/A
7. Material: Body		Bonnet		Disk	<u>entine rype en</u>	D Bolting	
(-)	14.3				1.15		
(a)	(b)		(c)		(d)		· (e)
Cert. Holder's	Nat'l Board		Body Seria		Bonnet		Disk
Serial No.	Board No.				Serial No.		Serial
			No.				No.
<u>11075</u> 11076	None		KEI-0		None		JKT-023
11076	None		KEI-0	02	None		JKT-024
<u> </u>				<u> </u>		- <u></u>	
<u> </u>	·				<u> </u>		
							<u> </u>
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<u> </u>							······································
<u> </u>				<u>-</u> -			
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* 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.

(12/88)

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This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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REPRINT 6/93

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

		Certificat	e Holder's Serial No	11075 & 11076
8. Design conditions1^		_	pressure class	
 Cold working pressure 	1440 psi at 100°F			
). Hydrostatic test2175_	psi. Disk differential tes	t pressure	1600	psi
. Remarks: <u>Qty. 2, Enertech</u>	Job Number 24628V			
	·			·
	CERTIFICATION	OF DESIGN		
Design Specification certified by Design Report certified by		P.E. State P.E. State	PA Reg. no. Reg. no.	036614-E 23241
	CERTIFICATE OF	COMPLIANCE		
Ve certify that the statements ma				6
f the ASME Code, Section III, Div	vision 1.			/26/02
I Certificate of Authorization No			61 11/21.	•
I Certificate of Authorization No Date <u>4/30/01</u> Name		Signed	Jan Ella	tates

	CERTIFIC	CATE OF INSPECTION
the State or Province of	California Inecticut , and state that to t	by the National Board of Boiler and Pressure Vessel Inspectors and and employed by <u>Hartford Steam Boiler Insp. & Insur. Co.</u> have inspected the pump, or valve, described in this Data Report on the best of my knowledge and belief, the Certificate Holder has con- ME Code, Section III, Division 1.
	·	employer makes any warranty, expressed or implied, concerning the
		neither the inspector nor his employer shall be liable in any manner for ind arising from or connected with this inspection.
Date 4/32/01 Signed	Willin Marger (Authorized Inspector)	Commissions

(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			Report Number 3211 RTL #A4.4					
1. Owner	wner F.E.N.O.C			Date	<u>12/02/2010</u>			
	(NAME)							
76 South N	Main Street – Akro	on, OH 44308		She	et1	of	1	
	(ADDRESS)			1	No.			
2. Plant	Beaver Valley Po	ower Station (BVF	<u>'S)</u>					
	Shippingport, PA	15077			WO	# 20033	9325 P.O. No., Job No., etc	
	(ADDRESS)				Repair/Replacement	Organization	P.U. NO., JOD NO., etc	
3. Work Perfo	rmed By <u>BVPS -</u>	Construction	<u></u>	Туре	e Code Symbol	Stamp	N/A	
	Shippingport, PA	15077		Auth	orization No		N/A	
	(ADDRESS)			Expi	ration Date _		N/A	
4. Identificatio	n of System <u>Riv</u>	ver Water (Q3)	ana da kata ana ana ana ana ana ana ana ana ana					
(b) Applicabl	e Construction Code <u>A</u> le Edition of Section XI le Section XI Code Cas	Utilized for Repair/Re				a, <u>N/A</u> Co	ode Case	
6. Identificatio	n of Components							
	T	(r		1
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa 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- 4A1	2004	Removed	No
Expansion Joint	Garlock	10-791021-01	N/A		REJ-1RW- 4A1	2010	Installed	No
Stud	Nova Machine	N/A	N/A		HT# X573	2005	Installed	No
Nut	Nova Machine	N/A	N/A		HT# S697	1997	Installed	No
7. Description	7. Description of Work Replacement of REJ and Flange Studs/Nuts with like kind							
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 3211 RTL #A4.414A
9. Remarks <u>Previous NIS-2 Data Report # 1744. Expansion Joint PO#45331376</u> , <u>Stud PO# 47117569 and</u> Applicable Manufacturer's Data Reports to be attached <u>Nut PO# 47121233</u>
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 1, 20 10 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this
Owner's Report during the period $5-21-09$ to $11-4-10$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dea J. Just Commissions NB9428 ANIB PA2384 Inspectors Signature National Board, State, Province, and Endorsements
Date, 20 10

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			Report Numb					RTL #A4.414A
	1. Owner F.E.N.O.C (NAME)				10/27/2010			
<u>76 South N</u>	Main Street – Akro (ADDRESS)	n, OH 44308			et1_			
2. Plant	Beaver Valley Po (NAME)	ower Station (BVF	PS)					
	Shippingport, PA (ADDRESS)	15077					00375743 n P.O. No., Job No., el	IC.
3. Work Perfo	rmed By <u>BVPS C</u>	Construction Servi	ices_	Туре	Code Symbol	Stamp	N/A	<u>.</u>
	Shippingport, PA	15077		Auth	orization No		N/A	
	(ADDRESS)			Expir	ation Date		N/A	
4. Identificatio	n of System <u>Re</u>	circulation Sprav	(C))					
	-							
	Construction Code S							
	e Section XI Code Ca							
6. Identificatio	n of Components							
	1					1		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nation Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Industrial Process	6301-1	3179		1RS-E-1A	1971	Corrected	Yes
<u> </u>								
7. Description	7. Description of Work Replace seal welded diaphragms.							
8. Tests Conducted: Hydrostatic* Pneumatic* Nominal Operating Pressure Exempt A 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 3212 RTL #A4.414A
9. Remarks Copy of original Data Report in NIS-2 #1577. Previous NIS-2 Data Report No. 3065. 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 <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A Signed T. White Staff Specialist Date October 27, 20 10 Owner or Owner's Designee, Title Staff Specialist Date October 27, 20 10
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5 - 2 / - 0$ to $7 - 29 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - $
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{\mathcal{A} \times \mathcal{A}}_{\text{Inspector's Signature}} Commissions \underbrace{\mathcal{N} & \mathcal{P} & \mathcal{P} & \mathcal{A} & \mathcal{I} & \mathcal{P} & \mathcal{A} & \mathcal{A} & \mathcal{A} & \mathcal{A} \\ National Board, State, Province, and Endorsements $ Date $\underbrace{\mathcal{I} & \mathcal{O} - \mathcal{L} & \mathcal{P} - \mathcal{I} & \mathcal{O} & \mathcal{O} & \mathcal{O} \\ \hline $

FC	ORM NIS-2 OV	NER'S REPC As Required by the					IENT ACTI	VITY
NOP-CC-5703-02	Rev. 00	F	Report Numb	ber <u>3213</u>				RTL #A4.414A
1. Owner	F.E.N.O.C (NAME)			Date	10/27/2010			
<u>76 South M</u>	Main Street – Akro (ADDRESS)	n, OH 44308					f <u>1</u>	
2. Plant	Beaver Valley Po	ower Station (BVF	<u>PS)</u>				•	
·	Shippingport, PA (ADDRESS)	15077	1.2.1				00375745 n P.O. No., Job No., e	IC.
3. Work Perfo	rmed By <u>BVPS (</u>	Construction Servi (NAME)	ices	Туре (Code Symbol	Stamp	N/A	·
	Shippingport, PA (ADDRESS)	15077					N/A N/A	
4. Identificatio	n of System Re	circulation Spray	(C))					
(b) Applicabl (c) Applicabl	Construction Code Section XI e Edition of Section XI e Section XI Code Cas n of Components	Utilized for Repair/Re						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	1	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Industrial Process	6301-3	3181		1RS-E-1C	1971	Corrected	Yes
·								
. Description	of Work <u>Replace</u>	seal welded diap	hragms.					
3. Tests Cond	Other	atic*	matic*				ure [] E:	

Page	1	of 2	

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 3213 RTL #A4.414A
9. Remarks Copy of original Data Report in NIS-2 #1578. Previous NIS-2 Data Report No. 3066. 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>October 27</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5-2/-09$ to $20-29-20$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
<u>Jean J-hyph</u> Inspector's Stignature Commissions <u>NB9427ANTB</u> <u>PA2384</u> National Board, State, Province, and Endorsements Date <u>10-29-</u> , 20 <u>10</u>

FC	ORM NIS-2 OW	INER'S REPC As Required by the					IENT ACTI	VITY		
NOP-CC-5703-02	NOP-CC-5703-02 Rev. 00						Number <u>3216</u>			
	(NAME) 76 South Main Street – Akron, OH 44308 (ADDRESS)				Date 10/10/2010					
76 South N					et <u>1</u> No					
2. Plant	Beaver Valley Po (NAME)	wer Station (BVF	<u>PS)</u>							
	Shippingport, PA (ADDRESS)	15077					00323026 n P.O. No., Job No., e	łc.		
3. Work Perfo	rmed By FENOC	Maintenance (NAME)		Тур	e Code Symbol	Stamp	N/A	<u> </u>		
	Shippingport, PA (ADDRESS)	15077			orization No					
4. Identificatio	n of System <u>Ve</u>	ntilation / River V	Vater (Q3)		ration Date					
5. (a) Applicable (b) Applicabl (c) Applicabl	e Construction Code <u>S</u> le Edition of Section XI le Section XI Code Cas n of Components	ection VIII 1 Utilized for Repair/Re	19 <u>71</u> Edition,	<u>S'72</u> A	ddenda,Code Case	2				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	1	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)		
Heat Exchanger	York	1-2239	46531		1VS-E-4B	1972	Corrected	No		
End Bell	Dubose National Energy	N/A	N/A		N/A	2009	Installed	No		
7. Description	of Work Replace	d heat exchange	r end bells.			L				
8. Tests Cond	Other		ımatic* 🗌		minal Operating _ psi Tes	-	ure 🛛 E:	xempt [] °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 <u>3216</u>
9. Remarks U-1 Data Report attached to previous NIS-2 No. 1590. The tube section of the heat exchanger was
Applicable Manufacturer's Data Reports to be attached exempt to ASME Section VIII and was made to commercial grade. Serial numbers 1 through 4 were supplied under
P.O. 45274468, however, the serial numbers installed were not recorded.
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Constrained</u> <u>T. White</u> <u>Constrained</u> <u>T. White</u> <u>Constrained</u> <u>Staff Specialist</u> Date <u>October 11</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of
Hartford, CT have inspected the components described in this
Owner's Report during the period $5-2l-09$ to $10-13-10$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning
the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor
his employer shall be 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 D.42384 National Board, State, Province, and Endorsements
Mational Doard, Olate, Frevince, and Endolsements
Date $10 - 13 - 120 - 10$

-

F		VNER'S REPORT As Required by the Pro				ENT ACTIV	ITY
NOP-CC-5703-02		· •	t Number 32			RT	L #A4.414A
1. Owner	F.E.N.O.C		Da	te <u>12/02/2010</u>			
	(NAME)						
76 South I	<u> Main Street – Akro</u>	on, OH 44308	Sh	eet1	of	1	
	(ADDRESS)		Un	it No	1		
2. Plant	Beaver Valley Po	ower Station (BVPS)	-				
·	Shippingport, PA (ADDRESS)	15077	-		# 20037 Organization	5747 P.O. No., Job No., etc.	
3. Work Perfo	ormed By <u>BVPS</u> -	- Maintenance	_ Тур	be Code Symbol	Stamp	<u> </u>	
<u> </u>	Shippingport, PA	15077		horization No		N/A	
	(ADDRESS)		Exp	piration Date _		<u>N/A</u>	
4. Identificatio	on of System <u>Ri</u>	ver Water (Q3)					
(b) Applicab	- le Edition of Section X	NSI B31.1 19 67 I Utilized for Repair/Replac		<u>S'71</u> Addend 2001E-2003A		ode Case	
., .,	le Section XI Code Ca	se(s): N/A					
6. Identificatio	n 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)
Nut	Nova Machine	N/A	N/A	N/A	2005	Installed	No
Stud	Nova Machine	N/A	N/A	HT# X573	2010	Installed	No
Check Valve	C & S Valve	89-0929-01(Q)-01	N/A	1RW-106	N/A	Removed	No
Check Valve	C & S Valve	92-2019-06(Q)-1	N/A	1RW-106	N/A	Installed	No
7. Description	of Work <u>Replace</u>	valve and valve bolti	ng with a s	bare valve and li	ke kind b	polting	
8. Tests Cond	Other	atic* Pneumat Pressure pressure and temperature		ominal Operatin psi Tes	-	re 🛛 Exe	mpt [_] ∘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 3236 RTL #A4.414A
9. Remarks Previous NIS-2# 2027. Stud PO# 47117569, Nut PO/HT# 47082958/P921 and 4708563/A201 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 2, 20 10 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$S^- 2/- \ell \beta$</u> to <u>$(1 - 4/-1)\ell$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dete, 20 _0 Commissions <u>JB9428 ANTB</u> <u>PA2884</u> National Board, State, Province, and Endorsements
· · · · · · · · · · · · · · · · · · ·

				of the ASME Code Se		LIII AOIII	
NOP-CC-5703-02			Report Numb	er <u>3239</u>	RTL #A4.414A		
1. Owner	F.E.N.O.C (NAME)	······	-	Date <u>12/02/2010</u>			
<u>76 South M</u>	Main Street – Akro (ADDRESS)	on, OH 44308	-	Sheet1 Unit No.			
2. Plant		ower Station (BV	PS)				
	<u>Shippingport, PA</u> (ADDRESS)	15077			0# 2003(nt Organization)8441 P.O. No., Job No., etc.	<u></u>
3. Work Perfo	rmed By <u>BVPS -</u>	- Maintenance		Type Code Symbo	I Stamp	N/A	
	Shippingport, PA	15077	. <u></u>	Authorization No.		N/A	
	(1991(200)			Expiration Date		N/A	
4. Identificatio	on of System				<u></u> .		
(b) Applicabl (c) Applicabl	Construction Code <u>A</u> le Edition of Section X le Section XI Code Ca on of Components	l Utilized for Repair/R se(s): N/A		dition, <u>S'71</u> Adden Activity <u>2001E-2003A</u>		Code Case <u>N/A</u>	
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	N/A	N/A	N/A	NRV-1MS-101B	1976	Corrected	No
Shaft	Flowserve	N/A	N/A	NRV-1MS-101B	2006	Installed	No
7. Description	of Work <u>Replace</u>	valve shaft bear	ing covers.	·			
8. Tests Cond	Other [Nominal Operatir psi Te		ure 🛛 Exe	empt [] °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 3239 RTL #A4.414A
9. Remarks <u>No Previous NIS-2. Shaft PO# 45203895</u> 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 2, 20 10 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5-2/-09$ to $1/-9-10$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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, 20 Commissions <u>NB 9425 ANTB P.42384</u> National Board, State, Province, and Endorsements

F	ORM NIS-2 OW	/NER'S REPC As Required by the					ENT ACTI	VITY
NOP-CC-5703-02 Rev. 00 Report Number						RTL #A4.414A		
1. Owner	F.E.N.O.C (NAME)			Date	<u>12/01/2010</u>			
76 South I	Main Street – Akro (ADDRESS)	n, OH 44308			et1_			
2. Plant	Beaver Valley Pc (NAME)	ower Station (BVF	<u>PS)</u>				<u></u>	
ADDRESS)					WO Repair/Replacement	# <u>20038</u> Organization	7923 P.O. No., Job No., et	lc.
3. Work Perfo	ormed By <u>BVPS -</u>	Maintenance (NAME)		Туре	Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA 15077Authorization NoN/A							
4 Identificatio	on of System <u>En</u>	nergency Diesel (03)	Expir	ation Date		<u>N/A</u>	
(b) Applicab (c) Applicab	e Construction Code <u>A</u> le Edition of Section XI le Section XI Code Cas on of Components	Utilized for Repair/Re	_				Code Case <u>N//</u>	<u>A</u>
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected , Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Swagelok	N/A	N/A		1DLO-28	2010	Installed	No
Pipe	Michigan Seamless	N/A	N/A		HT# 3M50192	2005	Installed	No
Pipe Cap	Bonney Forge	N/A	N/A		HT# 9438	2004	Installed	No
······								
7. Description	of Work Install ne	ew drain on line			•			
8. Tests Cond	Other 🗋		matic* 🗍		ninal Operating psi Tes	-	ire 🛛 Ex	empt [] °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 3248 RTL #A4.414	<u>4A</u>
9. Remarks No Previous NIS-2. Valve PO# 45346904, Pipe Po#45233562 and Pipe Cap PO# 45332935 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 <u>N/A</u>	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed J. Sciulli Nuclear Specialist Date December 1, 20 10 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 Inspector and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underbrace{\sqrt{-2/202}}_{\sqrt{-202}}$ to $\underbrace{//-4200}_{\sqrt{-1000}}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerni the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Dech}_{Inspector's & Signature} Commissions \underbrace{DB942 & FANIB}_{National Board, State, Province, and Endorsements} $	
Inspector's Signature National Board, State, Province, and Endorsements Date	

F	ORM NIS-2 OW	/NER'S REPC As Required by the						TY
NOP-CC-5703-02 Rev. 00			Report Number 3252 RTL #A4.414A					
	wnerF.E.N.O.C Date 12/02/2010							
	(NAME)			240	12/02/2010			
70.0		011 4 4000				. 6	4	
<u>76 South I</u>	Main Street – Akro (ADDRESS)	n, OH 44308			et1_			
				Unit	No	1_		,
2. Plant	Beaver Valley Po	wer Station (BVF	<u>PS)</u>					
1	Shippingport, PA	15077			WO	# 200383	348	
	(ADDRESS)						.O. No., Job No., etc.	
3. Work Perfo	ormed By <u>BVPS –</u>	Construction		Туре	Code Symbol	Stamp	N/A	
	Shippingport, PA	15077		Autho	prization No.		N/A	
}	(10011200)			Expir	ation Date		N/A	
4. Identificatio	on of System Riv	ver Water (Q3)						
5. (a) Applicable	Construction Code A	NSI B31.1 1	967 Ed	dition, S	'71 Addend	a, N/A Co	de Case	
	le Edition of Section XI		·	·				
1	le Section XI Code Cas	-		• -				
6. Identificatio	on of Components							
Name of	Name of	Manufacturer	Nationa Board		Other	Year	Corrected, Removed, or	ASME Code Stamped
Component	Manufacturer	Serial No.	No.		Identification	Built	Installed	(Yes or No)
Elbow	ATI	N/A	N/A		HT# 6XN- NVS001	2009	Installed	No
Flange	Western Forge and Flange	N/A	N/A		HT# 857B	2002	Installed	No
Ball Valve	BNL Industries	B021016-1-8	N/A		1RW-132	2003	Corrected	No
End Piece	BNL Industries	N/A	N/A		HT# D4730	2010	Installed	No
7. Description	of Work Replace	valve end nieces	· · · · · · · · · · · · · · · · · · ·	I			I	
		<u></u>						
8. Tests Cond	ucted: Hydrosta	atic* 🗌 🛛 Pneu	ımatic* 🗌	Nor	ninal Operating	g Pressur	e 🖾 🛛 Exe	mpt 门
	Other [] Pressure			psi Tes	t Temp.	<u> </u>	°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 3252	RTL #A4.414A					
*Record test press	are and temperature	<u></u>					
9. Remarks Previous NIS-2# 2076.	End Piece PO# 45324230, Elbow PO# 47265422 Applicable Manufacturer's Data Reports to be attached	and Flange PO# 7099495					
	· · · · · · · · · · · · · · · · · · ·						
<u> </u>	CERTIFICATE OF COMPLIANCE						
I certify that the statements made in Code, Section XI.	the report are correct and that this conforms to the	e requirements of the ASME					
Type Code Symbol Stamp <u>N/A</u>							
Certificate of Authorization No.	N/A Expiration Date	N/A					
Signed <u>J. Sciulli</u> Owner or Owner's Desi	Nuclear Specialist Date gnee, Title	<u>December 2,</u> 20 <u>10</u>					
C	CERTIFICATE OF INSERVICE INSPECTION						
and the State or Province of <u>Per</u> <u>Hartford, CT</u> ha Owner's Report during the period best of my knowledge and belief, the	emmission issued by the National Board of Boiler a ansylvania and employed by <u>HSB CT</u> ave inspected the components described in this $\underline{S-\lambda/-09}$ to $\underline{//-\mathcal{Y}-/\overline{v}}$, and Owner has performed examinations and taken co with the requirements of the ASME Code, Section λ	of state that to the prrective measures described in					
the examinations and corrective means his employer shall be liable in any ma or connected with this inspection.	inspector nor his employer makes any warranty, e isures described in this Owner's Report. Furtherm anner for any personal injury or property damage o Commissions <u>ノ </u>	nore, neither the inspector nor or a loss of any kind arising fron					
Inspector's Signature		Province, and Endorsements					

NOP-CC-5703-02	2 Rev. 00	F	Report Numbe	er <u>3254</u>			······································	RTL #A4.414
1. Owner	F.E.N.O.C (NAME)			Date	November 2,	2010		
76 South I	Main Street – Akro (ADDRESS)	n, OH 44308			t1_ No			
2. Plant	Beaver Valley Po	ower Station (BVF	<u>'S)</u>					
	Shippingport, PA (ADDRESS)	15077					00383347 n P.O. No., Job No., ei	tc.
3. Work Perfo	ormed By <u>BVPS C</u>	Construction Servi	<u>ces</u>	Туре	Code Symbol	Stamp	N/A	
	Shippingport, PA (ADDRESS)	15077		Autho	prization No			
	on of System Riv			Expir	ation Date _	<u> </u>	N/A	
(b) Applicab (c) Applicab	e Construction Code <u>A</u> le Edition of Section XI le Section XI Code Cas on of Components	Utilized for Repair/Re				Case		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	1	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Ball Valve	BNL Industries	B021016-1-6	N/A		1RW-130	2003	Corrected	No
End Cap	BNL Industries	B02101601-4	N/A			2003	Removed	No
End Cap	End Cap BNL Industries N/A N/A				Ht. #D4728	2010	Installed	No
. Description	of Work <u>Replace</u>	d valve end caps,	pipe nipple	e, and	flange.	·		
. Tests Cond	lucted: Hydrost	atic* 🗍 🛛 Pneu	matic* 🗌	Nor	ninal Operating	g Pressi	ure 🛛 Ex	kempt 🗌

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 3254 RTL #A4.414/
9. Remarks <u>No Code Data Reports available</u> . <u>Previous NIS-2 Data Report No. 1835</u> . <u>Replacement 6" NPS Pipe</u> : Applicable Manufacturer's Data Reports to be attached PO 47031899 / Ht. #811818M01; 6" NPS Flange: PO 7099495-15 / Ht. #857B.
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>November 12</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$\int -2 (-0.9)$</u> to <u>$(1-4-10)$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Jean}_{Inspector's} \underbrace{Jegnature}_{Signature} Commissions} \underbrace{Jegyas ANTS}_{National Board, State, Province, and Endorsements} $
Date, 20 / 0

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FC		VNER'S REPO As Required by the					NENT ACTI	VITY
NOP-CC-5703-02			Report Numbe					RTL #A4.414A
1. Owner	F.E.N.O.C	~		Date	November 22	. 2010		
	(NAME)							
76 South N	<u>/lain Street – Akro</u> (ADDRESS)	on, OH 44308		Sheet	1	0	f1	
	(ADDRESS)			Unit N	0.		1	
2. Plant	Beaver Valley Pe	ower Station (BVF	<u>28)</u>			·		
	Shippingport, PA	15077					0373908 n P.O. No., Job No., e	dc.
3. Work Perfo	rmed By <u>BVPS N</u>	Maintenance		Туре	Code Symbol	Stamp	N/A	۱ <u> </u>
	Shippingport, PA	15077		Autho	rization No		<u>N/A</u>	
	(ADDRESS)			Expira	tion Date		N/A	
4 Identificatio	n of System Er	nergency Diesel (03)					
	-							
		<u>NSI B31.1</u> 1 I Utilized for Repair/Re						
	e Section XI Code Ca		splacement					
6 Identificatio	n of Components							
		······				·		·····
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other . Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	EMD-General Motors	72-D1-1160	N/A		1EE-EG-1- ENGINE	1972	Corrected	No
			<u> </u>					
7. Description	of Work <u>Replace</u>	ed lube oil pipe cou	uplings.					
8. Tests Cond	Other [matic* 🗌		inal Operating psi Tes	-		xempt vector

		FOR REPAIRS/REPLACE sions of the ASME Code Section X	
NOP-CC-5703-02 Rev. 00	Report N	lumber <u>3256</u>	RTL #A4.414A
9. Remarks No Code Data Report	available. Replace	<u>ment Couplings: 3 ea. 4" – PO</u>	<u>45332534; 2 ea. 3" – PO</u>
45126587 & PO 45119100; 1 ea. 6	00 45445704		
		E OF COMPLIANCE	
I certify that the statements made in Code, Section XI.	the report are corre	ect and that this conforms to the	e requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>			
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed <u>T. White</u> Owner or Owner's Des	ignee, Title	Staff Specialist Date	<u>November 24</u> , 20 <u>10</u>
· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF	INSERVICE INSPECTION	
I, the undersigned, holding a valid c	-	-	
and the State or Province of <u>Pe</u> <u>Hartford, CT</u> h			of
Owner's Report during the period		-	state that to the
best of my knowledge and belief, the this Owner's Report in accordance v	e Owner has perform	ned examinations and taken co	prrective measures described in
By signing this certificate neither the the examinations and corrective me his employer shall be liable in any m or connected with this inspection.	asures described in anner for any perso	this Owner's Report. Furtherm anal injury or property damage of	nore, neither the inspector nor or a loss of any kind arising from
Det S. brich Inspector's signature	/ / Con	nmissions <u> </u>	TB PA な384 Province, and Endorsements
Date	, 20 / 0		

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F	ORM NIS-2 OW	/NER'S REPC As Required by the					IENT ACT	IVITY	
							RTL #A4.414A		
1. Owner	1. Owner F.E.N.O.C				November 2	2, 2010			
(NAME) 76 South Main Street – Akron, OH 44308 (ADDRESS)						f1			
2. Plant	2. Plant <u>Beaver Valley Power Station (BVPS)</u>					, <u> </u>			
	Shippingport, PA (ADDRESS)	15077		Work Order 200373909 Repair/Replacement Organization P.O. No., Job No., etc.					
3. Work Perfo	rmed By <u>BVPS N</u>	laintenance (NAME)		Туре	Code Symbo	<u>\</u>			
	Shippingport, PA	15077		Autho	orization No.		N/A		
	(ADDRESS)			Expir	ation Date		<u>N/A</u>		
4. Identificatio	on of System <u>En</u>	nergency Diesel (Q3)						
 5. (a) Applicable Construction Code <u>ANSI B31.1</u> 19 <u>67</u> Edition, <u>S'71</u> Addenda, <u></u>Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>2001E-2003A</u> (c) Applicable Section XI Code Case(s): N/A 6. Identification of Components 									
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Piping	EMD-General Motors	72-D1-1041	N/A		1EE-EG-2- ENGINE	1972	Corrected	No	
7. Description	of Work <u>Replace</u>	d lube oil pipe co	uplings.						
8. Tests Cond	Other [matic* 🗌		ninal Operatir psi Te	-	ure 🛛 E: 	xempt	

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 3257 RTL #A4.414A
9. Remarks <u>No Code Data Report available</u> . <u>Replacement Couplings: 4" – PO 45332534; 3" – PO 45126587</u> . 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Kleife</u> <u>Staff Specialist</u> Date <u>November 24</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5-21-07$ to $1(-4-10)$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{ $
Date, 20 <u>/ 0</u>

FC				REPAIRS/REPL of the ASME Code Se		IENT ACTI	VITY	
NOP-CC-5703-02				port Number <u>3273</u>				
1. Owner	F.E.N.O.C (NAME)			Date December 20				
76 South Main Street – Akron, OH 44308 (ADDRESS)				Sheet1 Unit No				
2. Plant Beaver Valley Power Station (BVPS)								
Shippingport, PA 15077 (ADDRESS)				Work C Repair/Replacemen	tc.			
3. Work Perfo	ormed By <u>BVPS (</u>	Construction Servi (NAME)	ices_	Type Code Symbol				
ADDRESS)				Authorization No. N/A Expiration Date N/A				
4. Identificatio	n of System Riv	ver Water (Q3)		Expiration Date _		N/A		
 4. Identification of System <u>River Water (Q3)</u> 5. (a) Applicable Construction Code <u>ANSI B31.1</u> 19 <u>67</u> Edition, <u>S'71</u> Addenda, <u>Code Case</u> (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>2001E-2003A</u> (c) Applicable Section XI Code Case(s): N/A 6. Identification of Components 								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Piping	Stone & Webster	N/A	N/A	WR-610	1976	Corrected	No	
Piping	First Energy	N/A	N/A	WR-610	2010	Installed	No	
	· · · · · · · · · · · · · · · · · · ·							
7. Description	of Work <u>Replace</u>	d pipe and fittings	s. Reworke	ed supports.		· · · · · · · · · · · · · · · · · · ·		
8. Tests Cond	Other [Nominal Operatin psi Tes	-	ure 🛛 E:	xempt 🗌 °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 3273 RTL #A4.414A
9. Remarks <u>No Code Data Report available</u> . <u>Replaced following 1-1/2" pipe and fittings – Pipe: PO 45335570 / Ht.</u>
#523562; Coupling: PO 7049429 / Ht. #1488ANE2; Tee 7037275 / Ht. #1488ANE2; Reducer: 47084700 / Ht.#62741;
Elbow: 45339154 / Ht.#E52, PO 45340452 / Ht. #18442. Additionally, the following supports were reworked: PS-113,
PS-120, PS-128, PS-121, PS-107 (removed), PS-108, PS-109, PS-112, PS-114, PS-116, PS-118, PS-122, PS-114,
PS-117, PS-110, PS-111, PS-115, PS-119, PS-123, PS-124, PS-125, PS-126, PS-127, PS-129, PS-130 by adding
2x2x1/4" angle: PO 47261319 / Ht. #JH1257; 5/8" Plate: PO 45337100; 3/8" Plate: PO 45151413 / Ht. # T4705;
<u>½" Plate: PO 45301005 / Ht. #A8T2701-02, PO 45189132 / Ht. #U8551/1A ; 1" Plate: PO 47034423 / Ht. #W63733.</u>
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u> Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>January 12</u> , 20 <u>11</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$S^- 2I - 09$</u> to <u>$II - 4 - 10^\circ$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{\int expressions}_{Inspector's Signature} Commissions \underbrace{\int B942-8 A JTB}_{National Board, State, Province, and Endorsements} $ Date $\underbrace{\int expressions}_{I=1}^{N-1/3-2}, 20 \underbrace{//}_{Inspector's Signature}$

FC				REPAIRS/RÉPL		IENT ACTI	VITY		
NOP-CC-5703-02	NOP-CC-5703-02 Rev. 00 Report Number 3275					RTL #A4.414A			
1. Owner	1. Owner								
76 South Main Street – Akron, OH 44308 (ADDRESS)				Sheet1 Unit No					
2. Plant	Beaver Valley Po	ower Station (BVF	<u>PS)</u>						
<u>Shippingport, PA 15077</u> (ADDRESS)				Work Order #200412068 Repair/Replacement Organization P.O. No., Job No., etc.					
3. Work Perfo	rmed By <u>BVPS N</u>	laintenance (NAME)		Type Code Symbol	Stamp	N/A	<u> </u>		
	Shippingport, PA	15077	ĺ.	Authorization No		N/A	<u> </u>		
	(ADDRESS)			Expiration Date _		N/A			
4. Identificatio	n of System <u>Ch</u>	emical and Volur	ne Control (Q2)					
 5. (a) Applicable Construction Code <u>ANSI B31.1</u> 19 <u>67</u> Edition, <u>S'71</u> Addenda, <u>Code Case</u> (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>2001E-2003A</u> (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		
7. Description	of Work <u>Reseal v</u>	velded canopy to	body.			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
8. Tests Cond	Other [_	imatic* 🗌	Nominal Operatin psi Tes	-	ure 🗌 E: 	xempt ⊠ °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 3275 RTL #A4.414A
9. Remarks <u>No Code Data Report available.</u> 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 <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>December 3</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of
Hartford, CT have inspected the components described in this
Owner's Report during the period $5-21-09$ to $11-9-10$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dear J. Junio Inspector's Signature Commissions <u>AB9438 ANTB PA2384</u> National Board, State, Province, and Endorsements
Date, 20

F	ORM NIS-2 OW	/NER'S REPC As Required by the					ENT ACTIV	ΊΤΥ
NOP-CC-5703-02			Report Numb					RTL #A4.414A
1. Owner	F.E.N.O.C (NAME)			Dat	e <u>12/15/2010</u>			
76 South	<u>Main Street – Akro</u> (ADDRESS)	n, OH 44308			et1 No			
2. Plant	Beaver Valley Po (NAME)	wer Station (BVF	PS)					
	Shippingport, PA (ADDRESS)	15077			Repair/Replacement	# 20041 Organization	5220 P.O. No., Job No., etc.	
3. Work Perfo	ormed By <u>BVPS -</u>	Construction (NAME)	<u></u>	Тур	e Code Symbol	Stamp	N/A	
	Shippingport, PA (ADDRESS)	15077		Authorization No. <u>N/A</u>				
4 Idontificatio				Exp	iration Date _	<u>_</u>	<u>N/A</u>	
4. Identificatio	on of System <u>Riv</u>	er water (Q3)						
(b) Applicabl (c) Applicabl	e Construction Code <u>A</u> le Edition of Section XI le Section XI Code Cas on of Components	Utilized for Repair/Re	—			Code Cas	se	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nation Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Schneider Inc.	N/A	N/A		WR-560	1976	Corrected	No
7. Description	of Work Cut and	reweld elbow and	d a section	of pi	De			
8. Tests Cond	Other [_	ımatic* 🗌		ominal Operating _ psi Tes	-	re 🛛 Exe	empt 🗍 °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 3286 RTL #A4.414A
9. Remarks <u>No Previous NIS-2.</u> 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 15, 20 10 Owner or Øwner'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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5-2(-0)^2$ to $1(-4-1)^2$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
Date $12 - 20, 20 / 0$

F	ORM NIS-2 OW	/NER'S REPO As Required by the					ENT ACTIV	ΊΤΥ	
NOP-CC-5703-02			eport Numbe				R	ſĽ #A4.414A	
1. Owner	F.E.N.O.C (NAME)					Date <u>1</u> 2	2/14/2010		
76 South I	<u>Main Street – Akro</u> (ADDRESS)	n, OH 44308					1		
2. Plant	Beaver Valley Po (NAME)	wer Station (BVP	<u>S)</u>						
	Shippingport, PA (ADDRESS)	15077		R		# 20042 Organization	5159 P.O. No., Job No., etc		
3. Work Perfo	ormed By <u>BVPS</u> -	Construction		Туре Со	ode Symbol	Stamp	<u>N/A</u>	·····	
	Shippingport, PA (ADDRESS)	15077		Authorization No. <u>N/A</u>					
A 1-1				Expiration	on Date _		<u>N/A</u>	<u></u>	
	on of System <u>Riv</u> e Construction Code <u>A</u>		9 67 Edition			ode Case	. <u> </u>		
(b) Applicab	le Edition of Section XI le Section XI Code Cas	Utilized for Repair/Re							
6. Identificatio	on of Components								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.			Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Piping	Schneider Inc.	N/A	N/A		WR-5	1976	Corrected	No	
<u> </u>							i i i i i i i i i i i i i i i i i i i		
								· · · · · · · · · · · · · · · · · · ·	
7. Description	of Work <u>Weld rep</u>	pair a pin hole lea	k			ļ			
8. Tests Cond	Other [atic*	matic* 🗌				ire 🛛 Exe	empt □ °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 3291 RTL #A4.414A
9. Remarks <u>No previous NIS-2.</u> 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed J. Sciulli Nuclear Specialist Date December 14, 20 10 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5-2(-0)^2$ to $1(-4-1)^0$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{ \underbrace$
Date <u>/ え ~ え 0</u> , 20 <u>/ 0</u>

NOP-CC-5703-02	Rev. 00	F	Report Numbe	er <u>3293</u>	· · · · · · · · · · · · · · · · · · ·		R	TL #A4.414A
1. Owner	F.E.N.O.C			Date	12/02/2010			
(ADDRESS)					t <u>1</u> No.			
2. Plant	Beaver Valley Pc	wer Station (BVF	<u>PS)</u>					
·	Shippingport, PA (ADDRESS)	15077			WO Repair/Replacement	# 200429 Organization P	434 .O. No., Job No., etc.	
3. Work Perfo	rmed By <u>BVPS –</u>	Maintenance (NAME)		Type Code Symbol StampN/A				
ADDRESS)					prization No.			
4	n of System <u>Re</u>			Expir	ation Date		N/A	
(b) Applicabl (c) Applicabl	e Construction Code <u>A</u> e Edition of Section XI e Section XI Code Cas n of Components	Utilized for Repair/Re			ion, <u>72</u> Addenda, . <u>001E-2003A</u>	<u>N/A</u> C	ode Case	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe (Yes or No
Heat Exchanger	Joseph Oat.Co	1832-1	368		1RH-E-1A	1969	Corrected	Yes
Stud	Nova Machine	N/A	N/A		HT# 2U88	2008	Installed	No
Description	of Work <u>Remove</u>	and Inspect one	flange bolt	and re	eplace is neces	ssary		
. Tests Cond	ucted: Hydrosta Other		imatic* 🗌		ninal Operating		e 🗌 Exe	mpt 🛛 °F

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	R'S REPORT FOR REPAIRS/REPLAC equired by the Provisions of the ASME Code Section	
NOP-CC-5703-02 Rev. 00	Report Number 2202	RTL #A4.414A
9. Remarks <u>Previous NIS-2 Report</u>	No1581. Stud PO# 45297678 Applicable Manufacturer's Data Reports to be attached	
×	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in t Code, Section XI. Type Code Symbol Stamp <u>N/A</u>	he report are correct and that this conforms to t	the requirements of the ASME
Certificate of Authorization No.	N/A Expiration Date	N/A
Signed <u>J. Sciulli</u> Owner or Owner's Desig	Nuclear Specialist Date	<u>December 1, 20 10</u>
CI	ERTIFICATE OF INSERVICE INSPECTION	
and the State or Province of <u>Penn</u> <u>Hartford, CT</u> hav Owner's Report during the period best of my knowledge and belief, the	mmission issued by the National Board of Boiler <u>nsylvania</u> and employed by <u>HSB CT</u> we inspected the components described in this 5 - 2 - 0 ? to $1 - 4 - 1 0$, ar Owner has performed examinations and taken of the requirements of the ASME Code, Section	of nd state that to the corrective measures described in
the examinations and corrective meas his employer shall be liable in any ma or connected with this inspection.	nspector nor his employer makes any warranty, sures described in this Owner's Report. Further nner for any personal injury or property damage Commissions <u>MB 9428 A M</u> National Board, State	rmore, neither the inspector nor e or a loss of any kind arising from
Date <u>12-6-</u> ,	20 <u>/0</u>	

FC	ORM NIS-2 OV	VNER'S REPO As Required by the					IENT ACTI	VITY
NOP-CC-5703-02	Rev. 00		Report Numb					RTL #A4.414A
1. Owner				Dat	e <u>October 31, 2</u>			
	(NAME)			1				
76 South N	Main Street – Akro	on, OH 44308		She	eet1	0	f 1	
	(ADDRESS)			Uni	t No.		1	
2. Plant	Beaver Valley Po	ower Station (BVF	<u>'S)</u>					
	Shippingport, PA	15077					00432353	
	(ADDRESS)				Repair/Replacement	Organizatio	n P.O. No., Job No., e	tc.
3. Work Perfo	rmed By <u>BVPS N</u>	Maintenance		Тур	e Code Symbol	Stamp	N/A	<u>.</u>
	Shippingport, PA	15077		Aut	horization No		N/A	
	(ADDRESS)			Exp	iration Date _		N/A	
4. Identificatio	n of System Re	sidual Heat Remo	oval (Q2)				·	
	- <u> </u>	NSI <u>B31.1</u> 1						
		Utilized for Repair/Re						
(c) Applicabl	e Section XI Code Ca	se(s): N/A		-				
6. Identificatio	n of Components							
				m				
			Nation	al			Corrected, Removed,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	1	Other Identification	Year Built	or Installed	Code Stamped (Yes or No)
Glove Valve	Rockwell- Edward	N/A	N/A		1RH-200	1976	Corrected	No
	L							
7. Description	of Work Installed	l a mechanical cla	Imping dev	vice a	ind support to co	ompens	ate for a crac	ked pipe to
valve inlet sock	et weld.							
8. Tests Cond	ucted: Hydrost	atic* 🗌 🛛 Pneu	matic* 🗌	No	ominal Operating	g Press	ure 🛛 🛛 Ex	kempt 🗌
	Other [] Pressure			_ psi Tes	t Temp		۰F
1	*Record test	pressure and temperature						

	ER'S REPORT FOR REPAIRS/REPLACE	
NOP-CC-5703-02 Rev. 00	Report Number <u>3294</u>	RTL #A4.414A
9. Remarks No Code Data Report	t available. The mechanical clamping device was ma	anufactured and installed by
Team Inc. per ECP 10-0619-001 u	nder the FENOC ASME Section XI program, and the	pipe support was
manufactured and installed by FEN	IOC. Both the clamping device and the support were	e later removed per work
Order 200199095 when the 3/2" value	ve and inlet piping were replaced. Materials installed	were: Team Clamp assembly
<u> PO 45352950; 14" Anvil Clamp – P</u>	<u>O 45352934; Tube Steel – 45210895; Plate – PO 47</u>	7283331 / Ht. #B0R6303; ½"
<u> Studs – PO 45333545 / Ht. #88982</u>	47; ½" Nuts – PO 45343125 / Ht. #4N88	······································
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made ir Code, Section XI.	the report are correct and that this conforms to the	requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>		
Certificate of Authorization No.	N/A Expiration Date	N/A
Signed <u>T. White</u> Owner or Owner's Des	Staff Specialist Date Main Staff Specialist	November 12, 20 10
	CERTIFICATE OF INSERVICE INSPECTION	
	ommission issued by the National Board of Boiler an	•
	nnsylvania and employed by <u>HSB CT</u> ave inspected the components described in this	of
	5-2/-09 to $1/-4-70$, and s	state that to the
	e Owner has performed examinations and taken corr with the requirements of the ASME Code, Section XI	
he examinations and corrective me	e inspector nor his employer makes any warranty, ex asures described in this Owner's Report. Furthermo nanner for any personal injury or property damage or	re, neither the inspector nor
or connected with this inspection.	/	,
Deand mulu Inspectors Signature	Commissions <u>NB 942T ANIB</u> National Board, State, P	PA J 3 8 4 rovince, and Endorsements
·		· ·
Date/	_, 20 <u>/ 0</u>	

P	aq	е	2	of	2

FC	DRM NIS-2 OW	/NER'S REPO As Required by the					IENT ACTI	VITY
NOP-CC-5703-02	n		Report Numbe			RTL #A4.414A		
1. Owner	F.E.N.O.C			Date	e October 31, 2			
	(NAME)							
76 South N	<u> 1ain Street – Akro</u>	n, OH 44308		She	et1	0	f1	
	(ADDRESS)			Unit	No.		1	
2. Plant	Beaver Valley Po	ower Station (BVF	<u>'S)</u>					
	Shippingport, PA (ADDRESS)	15077					00368067 n P.O. No., Job No., e	tc.
3. Work Perfo	rmed By <u>BVPS V</u>	(NAME)		Туре	e Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA	15077		Auth	orization No.		N/A	
	(ADDRESS)				ration Date			
4 Identificatio	n of System Riv	ver Water (Q3)						
	Construction Code A							
	e Edition of Section XI e Section XI Code Cas	·	epiacement A	ACTIVITY	2001E-2003A			
6. Identificatio	n of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Butterfly Valve	Rodney Hunt	2	N/A		MOV-1RW-103B	1993	Corrected	No
-								
7. Description	of Work <u>Replace</u>	d valve flange bol	lts.					
8. Tests Cond	Other [_	matic* 🗋		minal Operating _ psi Tes	-	ure 🗌 Ex	kempt ⊠ °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 3295 RTL #A4.414A
9. Remarks <u>No Code Data Report available</u> . <u>Previous NIS-2 Data Report No. 451</u> . <u>Replacement 1-1/4</u> " <u>Bolts: PO</u> Applicable Manufacturer's Data Reports to be attached 47167866 / Ht. #QQT.
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Kulte</u> <u>Staff Specialist</u> Date <u>November 3</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underline{5-2/-07}$ to $\underline{1/-4-10}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Jean}_{Inspector's pignature} Commissions \underbrace{JB9428 ANTB}_{National Board, State, Province, and Endorsements} $
Date, 20 <u>/ 0</u>
· · ·

	Rev. 00	Report Number	3296	RTL #A4.414			
1. Owner				Date November 2,			
76 South M	<u>ain Street – Akro (ADDRESS)</u>	on, OH 44308		Sheet1_			
2. Plant	Beaver Valley Po	ower Station (BVF					······································
	Shippingport, PA (ADDRESS)	15077				00432665 n P.O. No., Job No., e	tc.
3. Work Perfor	rmed By <u>BVPS N</u>	Maintenance (NAME)		Type Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA	/	Authorization No		N/A		
, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Expiration Date		N/A			
		edwater (Q3)		ion, <u>S'71</u> Addenda, <u></u> Co			
(b) Applicable		Utilized for Repair/Re		ivity <u>2001E-2003A</u>			
6. Identification	n 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 International	N/A	N/A	1FW-627	1976	Corrected	No
Cover ·	Rockwell International	N/A	N/A	Ht. #5P9487	1983	Installed	No
	Rockwell	N/A	N/A	Ht. #F6702	1983	Installed	No
Disc	International						
		d valve disc, cove	er, and seal t	welded cover to boo	iy.		

	R'S REPORT FOR REPAIRS/REPLA	
NOP-CC-5703-02 Rev. 00	Report Number 3296	RTL #A4.414A
9. Remarks <u>No Code Data Report av</u>	vailable. *Year installed. Applicable Manufacturer's Data Reports to be attached	
· · ·		·
		•
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in th Code, Section XI.	e report are correct and that this conforms to	the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>		
Certificate of Authorization No.	N/A Expiration Date	N/A
Signed <u>T. White</u> Owner or Owner's Design	Staff Specialist Da	te <u>November 12</u> , 20 <u>10</u>
CE	RTIFICATE OF INSERVICE INSPECTION	
	mission issued by the National Board of Boil	-
	e inspected the components described in this	
	5-2/-09 to $1/-4-10$,	
	Owner has performed examinations and taker in the requirements of the ASME Code, Section	
	spector nor his employer makes any warrant ures described in this Owner's Report. Furthe	· · · · ·
his employer shall be liable in any man or connected with this inspection.	ner for any personal injury or property damag	ge or a loss of any kind arising from
Inspector's Signature	ク Commissions <u>ノ タ タイ み タイ National Board, Sta</u>	JIB PA みるでタ ate, Province, and Endorsements
Date,	20 / 0	

NOP-CC-5703-02	Rev. 00	Report Number 3	3297			RTL #A4.414	
1. Owner				ate <u>November 15</u>			
76 South Main Street – Akron, OH 44308 (ADDRESS)			1	heet1 nit No			
	(NAME)	ower Station (BVP			- "0		
<u>Shippingport, PA 15077</u> (ADDRESS) 3. Work Performed By <u>BVPS Valve Team</u> (NAME) Shippingport, PA 15077				Repair/Replacemen	order #2 t Organization	<u>00432381</u> n P.O. No., Job No., e	Ic.
			יד ד	ype Code Symbol	<u> </u>		
				uthorization No			
				xpiration Date _		N/A	
		fety Injection (Q1)					
(b) Applicable (c) Applicable	e Edition of Section XI e Section XI Code Cas						
	n of Components	·		· · · · · · · · · · · · · · · · · · ·	1	[]	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe (Yes or No)
Check Valve	Velan	N/A	N/A	1SI-22	1976	Corrected	No
Cover	Velan	5375	N/A	Ht. #H4069	1990	Installed	No
ļ							
	' 						
					-		
. Description	of Work <u>Replace</u>	d valve cover and	l cover studs/	nuts.			
. Description	of Work Replace	d valve cover and	l cover studs/	nuts.			
. Tests Condu		atic* 🗌 Pneu		Nominal Operatin	-	ure 🛛 Ex	

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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 3297 RTL #A4.414A
9. Remarks <u>No Code Data Report available</u> . Installed 1-1/4" Studs: PO 47117569 / Ht. #X573; Nuts: PO 47121233 Applicable Manufacturer's Data Reports to be attached Ht. #S697.
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White HUE Staff Specialist</u> Date <u>December 2</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$\int -2 \int \sqrt{2}f$</u> to <u>$//-4 - 70$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Jem J.
Inspector Signature National Board, State, Province, and Endorsements Date $/2 - 3 - $, 20 / 0

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FC	ORM NIS-2 OV	WNER'S REPO As Required by the					IENT ACTI	VITY
NOP-CC-5703-02	Rev. 00	·	eport Numbe					RTL #A4.414A
1. Owner					December 3,			
<u>76 South M</u>	76 South Main Street – Akron, OH 44308 (ADDRESS)						f1	
2. Plant	Beaver Valley P	ower Station (BVP	<u>S)</u>					
Shippingport, PA 15077 (ADDRESS)							00410051 n P.O. No., Job No., e	tc.
3. Work Perfor	rmed By <u>BVPS</u>	Maintenance		Туре	Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA (ADDRESS)	A 15077			orization No			
A Libert Gradie			 		ration Date		N/A	
		hemical and Volum						
(b) Applicable (c) Applicable								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Relief Valve	Crosby	N69972-00-0016	N/A		RV-1CH-203	2003	Removed	No
Relief Valve	Crosby	61680-003	N/A		RV-1CH-203	1990	Installed	No
								i
7. Description	of Work <u>Replace</u>	ed valve with spare			ls/nuts.	·	·]	
8. Tests Condu	Other [Noi	minal Operating	g Press		kempt 🗌

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 3303 RTL #A4.414A
9. Remarks <u>No Code Data Report available</u> . <u>Previous NIS-2 Data Report No. 1622</u> . <u>Replacement 5/8</u> " <u>Studs: PO</u> <u>Applicable Manufacturer's Data Reports to be attached</u> <u>45314223 / Ht. #3N12</u> ; <u>Nuts: PO 45343125 / Ht. #4P86</u> .
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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>December 9</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underbrace{\mathcal{S}-\mathcal{L}/\mathcal{O}\hat{P}}_{\mathcal{I}}$ to $\underbrace{\mathcal{I}/\mathcal{I}-\mathcal{L}-\mathcal{I}\hat{D}}_{\mathcal{I}}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Jean J}_{\text{Inspector's Signature}} Commissions \underbrace{NB9428 A A IB}_{\text{National Board, State, Province, and Endorsements}} $ Date $J2-J3-$, 20 $\angle 0$

	2 Rev. 00	P-CC-5703-02 Rev. 00 Report Number 3304						
Owner	F.E.N.O.C			ate <u>November 15</u>				
76 South	Main Street – Akro (ADDRESS)	on, OH 44308		heet <u>1</u>		- <u> </u>		
Plant	Beaver Vailey P	ower Station (BVP				· ,		
Shippingport, PA 15077 (ADDRESS)			_			00296268 7 P.O. No., Job No., et	lc.	
Work Perfo	ormed By <u>BVPS I</u>	Maintenance	Т	ype Code Symbol	Stamp	N/A	·	
	Shippingport, PA	15077	A	uthorization No.		N/A		
	(ADDRESS)		ļ E	xpiration Date		N/A		
Identificatio	on of System <u>Re</u>	esidual Heat Remo	oval (Q2)					
., .,	ole Section XI Code Ca on of Components Name of Manufacturer		National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Relief Valve	Crosby	N69973-01-0001	N/A	RV-1RH-721	1988	Removed	No	
Relief Valve	Crosby	53237M1	N/A	RV-1RH-721	1976	Installed	No	
		-			· · · · · · · · · · · ·		•	

	ORT FOR REPAIRS/REPLACEMENT ACTIV Provisions of the ASME Code Section XI	/ITY
	Report Number 3304	RTL #A4.414A
9. Remarks <u>No Code Data Report available.</u> Pro Applicable Mar	evious NIS-2 Data Report No. 1868	
CERTIF	ICATE OF COMPLIANCE	
I certify that the statements made in the report are Code, Section XI.	e correct and that this conforms to the requirements o	of the ASME
Type Code Symbol Stamp <u>N/A</u>		
Certificate of Authorization No. <u>N/A</u>	Expiration DateN/A	
Signed <u>T. White</u> Owner or Owner's Designee, Title	Staff Specialist Date November 15,	20 <u>10</u>
CERTIFICATE	OF INSERVICE INSPECTION	
and the State or Province of <u>Pennsylvania</u> <u>Hartford, CT</u> have inspected Owner's Report during the period $5 - 2$	the components described in this $\frac{1-09}{10}$ to $\frac{11-9-10}{10}$, and state that to the erformed examinations and taken corrective measure	- - -
the examinations and corrective measures describ	his employer makes any warranty, expressed or imp bed in this Owner's Report. Furthermore, neither the personal injury or property damage or a loss of any k	inspector nor
Dean J. Wysch Inspector's Signature	Commissions NB9428 ANIB PA23 National Board, State, Province, and End	g ♀ dorsements
Date, 20		· •

FC	ORM NIS-2 OV	WNER'S REPO As Required by the					IENT ACTI	VITY
NOP-CC-5703-02	Rev. 00		eport Numbe		-		·····	RTL #A4.414A
1. Owner	F.E.N.O.C			Dat	e October 31, 2			
	(NAME)		-					
76 South N	<u> /ain Street – Akr</u>	on, OH 44308		She	eet1_	of	f <u>2</u>	
	(ADDRESS)			Uni	t No		1	
2. Plant	Beaver Valley P	ower Station (BVP	<u>S)</u>					
Shippingport, PA 15077					Work O	rder #2	00369665	
	(ADDRESS)					Organizatio	n P.O. No., Job No., e	tc.
3. Work Perfo	rmed By <u>BVPS</u>	Maintenance		Тур	e Code Symbol	Stamp	N/A	<u>\</u>
	Shippingport, PA	A 15077		Aut	horization No	×	N/A	
	(ADDRESS)			Exp	iration Date		N/A	
4. Identificatio	n of System C	hemical and Volum	ne Control ((Q2)				
						<u></u>		
	-	ASME Section III 19 (1 Utilized for Repair/Re						
	e Section XI Code Ca		F					
6 Identificatio	n of Components							
		, ,			I			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	I	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Relief Valve	Crosby	N56900-00-0029	194		RV-1CH-382B	1976	Corrected	Yes
		1130300-00-0023	194		KV-1011-302D	1370		1.65
			· · · · · · · · · · · · · · · · · · ·					
7. Description	of Work <u>Replace</u>	ed valve inlet flang	e studs/nut	ts.				
8. Tests Cond					ominal Operating			xempt 🛛
	Other [<u></u>		_ psi Tes	t Temp.		°F
	*Record test	t 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 3305 RTL #A4.414A
9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1867. Replaced 5/8" Studs: PO
Applicable Manufacturer's Data Reports to be attached 45275451 / Ht. #258262; 5/8" Nuts: PO 45203316 / Ht. #Z726. This is an ASME Section III valve installed into an
ANSI B31.1 system.
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 <u>N/A</u>
Certificate of Authorization No N/A Expiration DateN/A
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>December 10</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5^{} 2/-0^{\circ}$ to $1(-9/-10)$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Jean}_{Inspector's Signature} Commissions \underbrace{JB9428 AJIB}_{National Board, State, Province, and Endorsements} $
Date, 20 <u>/0</u>

	<u> </u>	I-28-84-*Corrected Report 1/2
CROSBY	CROSBY VAL WRI	
FORM NV-	1 FOR SAFETY AND SAFETY red by the Provisions of the AS	RELIEF VALVES Q.C44C
No rodm	DATA REPORT Safety and Safety Relief Val	
1. Manufactured By Crosby Valve &	Gage Company, 43 Ker	ndrick Street, Wrentham. Ma, 02
JB-25-	Name and Address	
Westinghouse E	lectric Corp.,	te <u>3/30/73</u> National Board No]
	Pittsburgh, Pa. 152 me and Address	230 Order No. 546-CCK-183426
3. Owner Duquesne Light Comp.		ower Station, Beaver Valley Unit
	Name and Address	
4. Location of Plant <u>Shippingport</u>	<u>, Beaver County, Penn</u>	ISYIVANIA
5. Valve Identification RV-8121 DMW	Serial No. <u>_N56900-00-</u>	0029 Drawing No. DS-C-56900 Rev. A
		Pipe Size Inlet Outlet
D C . C.C. D. D. H. C.D. L. D. D.		
· Safety Safety Relief. Pilot. Power		inch Inch I
6. Set Pressure (PSIC) 150		inch Inch Inch I 250° Rated Temperature
6. Set Pressure (PSIC) 150		
6. Set Pressure (PSIG) 150 Stamped Capacity 225 GPM Wate	er@10_ % Overpr	250° Raied Temperature essure Blowdown @F&K000f_S_ Dutlet
6. Set Pressure (PSIC) 150	er@10_ % Overpr	250° Raied Temperature essure Blowdown @F&K000f_S_ Dutlet
6. Set Pressure (PSIG) 150 Stamped Capacity 225 GPM Wate	<u>er 9 10 % Overpr</u> С 425 хЗахар	250° Rated Temperature essure Blowdown (F&K) 10% of S butlet bete Valor 425
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 4 7. The material, design, construction and 	ere10_ % Overpr C 425%%%% workmanship comply with ASM	250° Rated Temperature essure Blowdown (F&K) 10% of S butlet bete Valor 425
 6. Set Pressure (PSIG) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 	er e 10 % Overpr G 425 X3000 workmanship comply with ASM 1,Addenda DateWi	250° Rated Temperature essure Blowdown @E&KCOOf_S_ Dutlet Dete: Valor425 E Code, Section III.
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 4 7. The material, design, construction and 	er e 10 % Overpr G 425 X3000 workmanship comply with ASM 1,Addenda DateWi	250° Raied Temperature essure Blowdown cF2H0310% of S butlet bistorWalve 425 E Code, Section III. nter 1972, Case No
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Preseure Containing or Pressure Retain 	er e 10 % Overpr G 425 X3000 workmanship comply with ASM 1,Addenda DateWi	<u>250°</u> Rated Temperature essure <u>-</u> Blowdown (FSHO) <u>10% of S</u> Dutlet Detervator <u>425</u> E Code, Section III. <u>nter 1972</u> , Case No, <u></u> <u>Material Specification</u> Jockding Type or Grade
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Pressure Containing or Pressure Retain a. Castings 	ere10_ % Overpr 425 workmanship comply with ASMS 1,Addenda DateWi ning Components Serial No. Identification	250° Rated Temperature essure Blowdown of 2000 10% of S butlet bester Water 425 E Code, Section III. nter 1972, Case No Material Specification Including Type or Grade ASTM-A351-72 Gr. CF8M
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Pressure Containing or Pressure Retain a. Castings Body 	ere10_ % Overpr 425 workmanship comply with ASM 1,Addenda DateWi ning Components Serial No. Identification N90135-34-0028	<u>250°</u> Rated Temperature essure <u>-</u> Blowdown (F210) <u>10% of S</u> butlet bester Water <u>425</u> E Code, Section III. <u>nter 1972</u> , Case No. <u></u> <u>Material Specification</u> <u>Including Type or Grade</u> ASTM-A351-72 Gr. CF8M <u>ASTM-A216-70 Gr. WCB</u>
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Pressure Containing or Pressure Retain a. Castings Body Bonnet 	ere10_ % Overpr 425 workmanship comply with ASMS 1,Addenda DateWi ning Components Serial No. Identification	250° Rated Temperature essure Blowdown @F&HO310% of S butlet beter Water 425 E Code, Section III. Inter 1972, Case No Material Specification Including Type or Grade ASTM-A351-72 Gr. CF8M <u>ASME-SA351 Gr. CF8M</u>
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Pressure Containing or Pressure Retail a. Castings Body Bonnet b. Bar Stock and Forgings 	ere10_ % Overpr 425 workmanship comply with ASM 1,Addenda DateWi ning Components Serial No. Identification N90135-34-0028	<u>250°</u> Rated Temperature essure <u>-</u> Blowdown (F210) <u>10% of S</u> butlet bester Water <u>425</u> E Code, Section III. <u>nter 1972</u> , Case No. <u></u> <u>Material Specification</u> <u>Including Type or Grade</u> ASTM-A351-72 Gr. CF8M <u>ASTM-A216-70 Gr. WCB</u>
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Preseure Containing or Pressure Retain a. Castings Body Bonnet b. Bar Stock and Forgings Support Rods 	ere10_ % Overprov 425 workmanship comply with ASMS 1,Addenda DateWi ning Components Serial No. Identification N90135-34-0028 	250° Rated Temperature essure Blowdown @F&HO310%of_S
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Pressure Containing or Pressure Retain a. Castings Body Bonnet b. Bar Stock and Forgings Support Rods Notale 	ere10_ % Overpr 425% workmanship comply with ASki 1,Addenda DateWi ning Components Serial No. Identification N90135-34-0028 000449-31-0010	250° Rated Temperature essureBlowdown @F&HO310%ofS_ butlet bester.Waker425 E Code, Section III. nter, Case No, E Code, Section III. nter, Case No, Case No, , Case No, Case No, ASTM-A351-72 Gr. CF8M ASTM-A216-70 Gr. WCB ASME-SA216 Gr. WCB ASME-SA479 ASTM-A479-71 Type 316
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Preseure Containing or Pressure Retail a. Castings Body Bonnet b. Bar Stock and Forgings Support Rods Notale Disc Insert 	ere10_ % Overpro- 425workmanship comply with ASMS 1,Addenda DateWi ning Components Serial No. Identification N90135-34-0028 N90449-31-0010 N90137-40-0098 N90448-33-0069 N88534-42-0235	250° Rated Temperature essureBlowdown @F&HO310%ofS butlet beter Walve425 E Code, Section III. nter 1972, Case No, E Code, Section III. nter 1972, Case No, E Code, Section III. nter 1972, Case No, ASTM-A351-72 Gr. CF8M ASTM-A351-72 Gr. CF8M ASTM-A216-70 Gr. WCB ASTM-A216-70 Gr. WCB ASTM-A479-71 Type 316 ASTM-A479-70 Gr. B6
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Pressure Containing or Pressure Retail a. Castings Body Bonnet b. Bar Stock and Forgings Support Rods Notale 	ere10_ % Overprov 425workmanship comply with ASM 1Addenda DateWi ning Components Serial No. Identification N90135-34-0028 N90449-31-0010 N90137-40-0098 N90448-33-0069 N88634-42-0193	250° Rated Temperature essureBlowdown @F&HO310%ofS butlet beter Walve425 E Code, Section III. nter 1972, Case No, E Code, Section III. nter 1972, Case No, E Code, Section III. nter 1972, Case No, Case No, ASTM-A351-72 Gr. CF8M ASTM-A351-72 Gr. CF8M ASTM-A216-70 Gr. WCB ASTM-A216-70 Gr. WCB ASTM-A479-71 Type 316 ASTM-A479-70 Gr. B6 ASTM-A193-70 Gr. B6
 6. Set Pressure (PSIC) 150 Stamped Capacity 225 GPM Wath Hydrostatic Test (PSIG) Inlet 7. The material, design, construction and Class 2 Edition 197 Preseure Containing or Pressure Retail a. Castings Body Bonnet b. Bar Stock and Forgings Support Rods Notale Disc Insert 	ere10_ % Overpro- 425workmanship comply with ASMS 1,Addenda DateWi ning Components Serial No. Identification N90135-34-0028 N90449-31-0010 N90137-40-0098 N90448-33-0069 N88534-42-0235	250° Rated Temperature essureBlowdown @F&HO310%ofS butlet beter Walve425 E Code, Section III. nter 1972, Case No, E Code, Section III. nter 1972, Case No, E Code, Section III. nter 1972, Case No, ASTM-A351-72 Gr. CF8M ASTM-A351-72 Gr. CF8M ASTM-A216-70 Gr. WCB ASTM-A216-70 Gr. WCB ASTM-A479-71 Type 316 ASTM-A479-70 Gr. B6

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ne na <u>na serie de la composition de la</u> served.com/composition2000300 propose of the territory and a *Remarks: Report corrected to add the date to the Certificate of Shop Inspection after verification to the component route sheet. Original-ANI Signeee is no longer in the employment of Factory Mutual. MA·1301 PAWC 3388 NB-SGII-N N Factory Mutual ANI Quality Assurance Date Crosby Date Serial No. or Material Specification Identification Including Type or Grade NX-2605-0060 ASTM-A313 Type 316 c. Spring d. Bolting e. Other Parts such as Pilot Components ASTM-A453-70 Gr. 660 ASME-SA453 Gr. 660 Bonnet Stud 89289 ASTM-A193-71 Gr. B6 Bonnet Stud Nut 89293 ASME-SA193 Gr. B6 O n We certify that the statements made in this report are correct. Date 1-13 1976 Signed Crosby Valve & Gage Co. By Manufacturer **QA** Manager 926 expires October 28, 1977 Certificate of Authorization No. __ CERTIFICATE OF SHOP INSPECTION . I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Mass</u> and employed by Factory Mutual Systems*, Norwood, Mass. inspected the equipment described in this Data Report on _____* FEB have 19 Z e and state that to the best of my knowledge and beilef, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property the Inspector nor his employer shall be have any memory with this inspection. damage or a loss of any kind arising from or connected with this inspection. MB 7325 Mm wc 215310 12 19 76 101205 Anspector - Commissions -National Board, State, Province and No.) *Arkyright-Boston Manufacturers Mutual Insurance Company - Mutual Boi/ler & Machinery Division.

F				REPAIRS/REPL		IENT ACT	VITY	
NOP-CC-5703-02	Rev. 00		Report Nu	mber_3306		RTL#A4.41/	۹	
1. Owner	F.E.N.O.C (NAME)		1	Date <u>12/16/10</u>				
_76 South M	<u>Main Street – Akro</u> (ADDRESS)	n, OH 44308		Sheet1 Unit No				
2. Plant	Beaver Valley Po	ower Station (BVF	<u>PS)</u>					
	Shippingport, PA (ADDRESS)		Repair/Replacement	# 2003 Organizatio	7 <u>1901</u> n P.O. No., Job No., e	etc.		
3. Work Perfo	rmed By <u>BVPS –</u>	Construction (NAME)		Type Code Symbol	Stamp	N/A	<u> </u>	
	ADDRESS)					N/A		
1 Idontification	n of System <u>Re</u>	actor Coolast (C)	1)	Expiration Date _				
	-		-					
(b) Applicabl	le Edition of Section XI le Section XI Code Cas n of Components	Utilized for Repair/Re		<u>'71</u> Addenda <u>, N/A</u> Code tivity <u>2001E – 2003A</u>	Case			
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	Bergen Paterson	1858	N/A	BV-RC-HC-10C		Removed	No	
Snubber	Bergen Paterson	1842	N/A	BV-RC-HC-10C		Installed	No	
							· · · · · · · · · · · · · · · · · · ·	
<u></u>								
7. Description	of Work <u>Replace</u>	d snubber with a	spare beca	use of seal leakage	,			
8. Tests Cond	Other [_	imatic* 🛄	Nominal Operatin psi Tes	-	ure 🗌 E	xempt ⊠ °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 3306 RTL#A4.41A
9. Remarks <u>The snubber was replaced with a used spare rotated from stock, but the removed</u> , but the removed Applicable Manufacturer's Data Reports to be attached <u>snubber was not tested (IWA-4132(h))</u> .
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 <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A Signed J.Sciulli Nuclear Specialist Date December 17 th , 2010 Owner or Owner's Designee, Title Title Date December 17 th , 2010
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5 - 2 l - 0 g$ to $l - 4 - 7 0$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $March March $

FC		· VNER'S REPC As Required by the					IENT ACTI	VITY
NOP-CC-5703-02					9			RTL #A4.414A
1. Owner				1	e November 18			
76 South M	Main Street – Akro (ADDRESS)	n, OH 44308			et1			
2. Plant	Beaver Valley Po	ower Station (BVF	<u>PS)</u>					
	Shippingport, PA (ADDRESS)	15077					00432540 n P.O. No., Job No., e	etc.
3. Work Perfo	rmed By <u>BVPS V</u>	/alve Team (NAME)		Тур	e Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA	15077		Auth	norization No		N/A	
	(1001(200)			Exp	iration Date _		N/A	
4. Identification	n of System <u>Qu</u>	ench Spray (Q2)						
5 (a) Analizable	Construction Order A		0.00 5 48.00	•				
		NSI B16.5 1 Utilized for Repair/Re						
	e Section XI Code Cas	-						
6. Identificatio	n of Components							
	,		r				T	· · · · · · · · · · · · · · · · · · ·
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nation Board No.	-	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Schutte & Koerting	700480	N/A		1QS-4	1976	Corrected	No
Disċ	Flowserve	N/A	N/A		N/A	2001	Installed	No
·						- 		
					<u></u>			
7. Description	of Work Replace	d valve disc.						
<u> </u>		<u></u>						
8. Tests Cöndi	ucted: Hydrosta Other [_	Imatic*		minal Operating _ psi Tes	-	ure 🗌 E	xempt ⊠ °F
		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 3309 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 <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>November 24</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-2(-0)^2$</u> to <u>$1(-4-10)$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{ $
Date, 20 <u>/ 0</u>

FO	RM NIS-2 OV	VNER'S REPC As Required by the					IENT ACTI	VITY
NOP-CC-5703-02 R	Rev. 00		Report Numb					RTL #A4.414A
1. Owner	F.E.N.O.C			Dat	e <u>10/29/2010</u>			
	(NAME)							
76 South Ma	ain Street – Akro (ADDRESS)	on, OH 44308		She	et1	0	f2	<u> </u>
	(10)(10)			Unit	No		1	
2. Plant	Beaver Valley Po	ower Station (BVF	<u>PS)</u>					
	Shippingport, PA	15077					00372724 n P.O. No., Job No., e	tc
2 Mark Darfar	. ,	1-interrer -		T				
3. Work Perform	ned By <u>BVPS I</u>	(NAME)		Тур	e Code Symbol	Stamp	N/A	<u> </u>
	Shippingport, PA	15077		Auth	norization No	<u></u>	N/A	
	(ADDRESS)			Exp	iration Date _		N/A	
4. Identification	of System Qu	iench Spray (Q3)	<u> </u>		·····			
5. (a) Applicable C	Construction Code S	Section III 1	9 89 Edition	1991	Addenda Code	Case		
		Utilized for Repair/Re						
(c) Applicable :	Section XI Code Ca	se(s): N/A						
6. Identification	of Components							
				[I		
			Nationa	al			Corrected, Removed,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	ł	Other Identification	Year Built	or Installed	Code Stamped (Yes or No)
Relief Valve	Farris	NC-1506-A15	N/A		RV-1QS-100B	2004	Corrected	Yes
	Engineering						Concolled	100
			. <u> </u>				· ·	· · · ·
7. Description of	Work <u>Replace</u>	d valve inlet studs	s/nuts.					
8. Tests Conduc		atic* 🗌 🛛 Pneu						
	Other [Pressure			_ psi Tes	t 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 3312 RTL #A4.414A						
9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1556. Replacement 1/2" Studs: PO						
Applicable Manufacturer's Data Reports to be attached 45301001 / Ht. #2Y31; Nuts: PO 45321040 / Ht. #3T97, PO 45318842 / Ht. #3T44, PO 45297319 / 2U09.						
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 <u>N/A</u>						
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>						
Signed <u>T. White</u> <u>Staff Specialist</u> Date <u>November 24</u> , 20 <u>10</u> 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of						
Hartford, CT have inspected the components described in this						
Owner's Report during the period $5-2(-0.9)$ to $1/-4-10$, and state that to the						
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning						
the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor						
his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from						
or connected with this inspection.						
Det 1 2 1 2000 189428 4 1 = 8 4 284						
Dean S. hyrich Inspector's Signature Commissions NB9428ANIB PA2384 National Board, State, Province, and Endorsements						
Date, 20 /0						

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 🖳

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								=
. Manufactured	and certified by Farris	Engineering Division o	f Curtiss-Wrig	ht Flow Control Corporation		Brantford, Ontario	Canada N3T 5T3	
2. Manufactured :	First Energy	Beaver \	Valley Main		Shippingport	PA U	SA 15077	
2. 110112/0010100				(name and address of Purchas	er)		<u> </u>	
3. Location of ins	tallation BEAVER VAI	LLEY POWER STAT						
·			0	(name and address)			0.5	
	6GB10L-120/S4/SP (model no., series no.)	_ Orifice size	G	Nom. inlet size	1.5	Outlet size	2.5	<u> </u>
,	(model no., series no.)	1989	(in.)	1991	(in.) 3		N/A	
5. ASME Code, Se	ection III, Division 1:	(edition)		(addenda date)	(class		{Code Case no.}	
	Spring	150		70 F		25 .	Min. 50	
6. Type (spring, pil		et pressure, psig}	(blowdown, p		(hydro. test.	at		- °F
	NC-1506-A15	200462		27531 REV -		N/A	2004	
7. Identification .	(Cert. Holder's serial no.)	(Mat'l Cod	le)	(drawing no.)		(Nat'l. Bd. no.)	(year built	5
8. Control ring se	4							
s. control ing se								
9. Pressure retain	ing items:							
	0	o. or Identification		Mat'l. Spec., Inc.	luding Type or (Srade	Tensile Strength	, (KS
·	·····	083-CF4-1		SA351 GRADE CF8M SOI			70	
lody Ionnet or Yoke		J857-1		SA351 GRADE CF8M SOL				
Support Rods		N/A		N/A				
lozzle	0777	744-1A-18		SA479 GRADE 316 SOLU	TION ANNEALE	D BAR	75	
lisk	9N23	36-L20-1-4		SA479 GRADE 316 SOLU	D BAR	75		
pring Washers	J9051-2-	-45 J9051-2-46		SA479 GRADE 316 SOLU	D BAR	75		
diusting Screws	150	504-1-26		SA479 GRADE 316 SOLU	75_			
lle	150504-1-25			SA479 GRADE 316 SOLU	75			
pring	0HT3			A 313 Type 316 STAINLES	171			
olting	723541			SA564 GRADE 630 COND	140			
ther Items	DISC HOLDER: 9P101-L20-1-11			SA479 GRADE 316 SOLU	75			
Hex Nuts	30257			SA194 GRADE 8M FINIS	80			
0. Relieving capad	city 160 USG	PM WATER fluid, lb/hr)	@ 10%	(15) overpressure	as certified b	y the National B	oard . 7/28/2003 (date)	١.
1. Remarks:								
Design Specificati	ion certified by			TION OF DESIGN P.E. State		Reg. no		
Design Report cer				P.E. State	Ontario	Reg. no	100052462	
	······································				·····			
III, Division 1.	Authorization No	his report are correc	t and that th N-3061	OF COMPLIANCE his valve conforms to th		nstruction of the November 2, 2		оп
D/121	Farris Er	gineering, Division Of Curti (NV Certific	iss-Wright Flow	Control Corporation	1X1	10000		
Date	<u> </u>	(NV Certific	ate Holder)	Signed	- <u>Caperle</u>	(authorization repres	entative)	
· /				·				
, is included on	each sheet, (3) each shee	t is numbered and the	number of s	ed provided (1) size is $8\frac{1}{2}$ heets is recorded at the top 2 Law Drive, Box 2300, Fair	o of this form.	- 100	nrough 4 on this Dat	a
							AND ANALY DEPARTURE AND	ll
							E00042	

FORM NV-1 (Back – Pg. 2. of 2)

Certificate Holder's Serial No.

NC-1506-A15

CERTIFICATE OF INSPECTION

of <u>ONTARIO</u> have inspected the valve described in this Data Report on <u>Hestory</u> and state that to the best of my knowledge and belief, the Certificate Holder has constructed this 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.

S NB 12-148 AN DN. 82 [Nat'l. Bd. (incl. endorsements) and state or prov. and no.] Date 70518,94 Signed _ Commissions (Authorized Nuclear