



FirstEnergy Nuclear Operating Company

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

Eric A. Larson
Site Vice President

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August 20, 2014
L-14-243

10 CFR 50.55a(g)

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

SUBJECT:
Beaver Valley Power Station, Unit No. 2
Docket No. 50-412, License No. NPF-73
Seventeenth Refueling Outage Inservice Inspection Summary Report

In accordance with 10 CFR 50.55a, "Codes and Standards," and the American Society of Mechanical Engineers Boiler and Pressure Vessel Code Section XI, Article IWA-6000, "Records and Reports," enclosed please find the inservice inspection summary report for examinations performed prior to and during the seventeenth refueling outage at Beaver Valley Power Station, Unit No. 2 (BVPS-2).

Class 1, 2, 3, and IWE component inservice inspection examinations addressed in the report are part of the BVPS-2 second period of the third ten-year interval and were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 2001 Edition, 2003 Addenda. The inservice inspection term at BVPS-2 covered by this report includes the period from November 5, 2012 to May 24, 2014.

There are no regulatory commitments contained in this submittal. If there are any questions or if additional information is required, please contact Mr. Thomas A. Lentz, Manager – Fleet Licensing, at (330) 315-6810.

Sincerely,

Eric A. Larson

A047
NRR

Beaver Valley Power Station, Unit No. 2
L-14-243
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Enclosure:

FirstEnergy Nuclear Operating Company, Beaver Valley Power Station, Unit No. 2,
Seventeenth Refueling Outage Inservice Inspection Summary Report

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

Enclosure
L-14-243

FirstEnergy Nuclear Operating Company
Beaver Valley Power Station, Unit No. 2
Seventeenth Refueling Outage Inservice Inspection Summary Report
(176 Pages Follow)

BEAVER VALLEY POWER STATION UNIT 2
Route 168, Shippingport, PA

Inservice Inspection Summary Report

Outage 17, Year 2014


Inspection Term: 11/5/2012 to 5/24/2014

Issue date: 8-7-14

Owner: FirstEnergy Nuclear Operating Company (FENOC)
76 South Main St.
Akron, OH 44308

NRC Docket Number: 50-412

Reactor Supplier: Westinghouse Electric Corporation
Commercial Service Date: November 17, 1987

 Reviewed by: Carol Battin
Supervisor, Nuclear Programs

Date: 8/5/14

Reviewed by: Dean D. Lynch
ANII

Date: 8-7-14

Approved by: Carol Battin for P. Lawman
Manager, Technical Services Engineering

Date: 8/7/14

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

1. Owner FirstEnergy Nuclear Operating Company (FENOC), 76 South Main St. Akron, OH 44308
 (Name and Address of Owner)

2. Plant Beaver Valley Power Station, PO Box 4, Shippingport, PA 15077
 (Name and Address of Plant)

3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 11/17/87 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 Coolant Piping	Southwest Fabricating	N/A	N/A	N/A
Auxiliary Piping	Schneider Power	N/A	N/A	N/A
2RCS-REV21	Combustion Engineering	CE-9071	160591B	21669
2RCS-SG21A	Westinghouse Electric Corp	DMGT-1961	485065V	W-16598
2RCS-SG21B	Westinghouse Electric Corp	DMGT-1962	485066V	W-16599
2RCS-SG21C	Westinghouse Electric Corp	DMGT-1963	485067V	W-16600
2RCS-PRE21	Westinghouse Electric Corp	1911	485064V	W18695
2RSS-E21A	Joseph Oat Corp	2189-1A	485070V	890

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

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

FORM NIS-1 (Back)

8. Examination Dates 11/5/2012 to 5/24/2014
9. Inspection Period Identification: 12/30/2011 to 4/29/2015
10. Inspection Interval Identification: 8/29/2008 to 8/28/2018
11. Applicable Edition of Section XI 2001 Addenda 2003
12. Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 13
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 examinations performed during Cycle 17 and Refueling Outage 2R17. 2R17 was the second outage in the 2nd Period of the 3rd Ten-Year Interval. The ASME XI completion percentage requirements were completed for the 2nd 40-Month Period, with the exception of Exam Category B-D; the percentage requirement for this category will be completed during the next refueling outage, 2R18, using the grace period allowed in IWA-2430(c)(2). 2R18 is scheduled 5 months following the end of the 2nd 40-month Period.**
14. Abstract of Results of Examination and Tests. **See text of summary report.**
15. Abstract of Corrective Measures. **See the Deficiency Resolution Section on page 6.**

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

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
 Date 7/11/2014 Signed FENOC By [Signature]
 (Owner)

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11/5/2012 to 5/24/2014 and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

[Signature] Commissions NB 9428 ANIB, PA 2384
 Inspector's Signature National Board, State, Province and Endorsements
 Date 2-17-14

OUTAGE SUMMARY

ASME XI Vessel, Piping and Support Examinations

During the Seventeenth Refueling Outage (2R17) at the Beaver Valley Power Station, Unit No. 2 (BVPS-2), Inservice Inspection (ISI) examinations were performed on Class 1, 2, 3 and IWE components. This was the second outage in the second period of the 3rd Ten-Year Interval. Also included in this report are examinations performed prior to 2R17 during plant operation. The Class 1, 2, 3 and IWE examinations were based on ASME Section XI, 2001 Edition, 2003 Addenda.

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

1. Forty-three (43) Class 1 exams were performed using volumetric, surface and visual examination methods. See Appendix I for the specific components and examinations methods.
2. Forty-nine (49) Class 2 exams were performed using volumetric, surface and visual examination methods. See Appendix I for the specific components and examinations methods.
3. Five (5) Class 3 exams were performed using visual examination methods. See Appendix I for the specific components and examination methods.
4. Five (5) IWE examinations were performed using UT thickness and visual examination methods. See Appendix I for the specific components and examination methods.

Examinations were performed by FirstEnergy Nuclear Operating Company (FENOC) and contracted NDE Technicians. Appendix I compiles the examinations that have been credited toward fulfilling the Ten Year Plan requirements.

Code Cases N-770-1 and N-729-1 Examinations

The examinations required by 10CFR50.55a associated with Code Cases N-770-1 and N-729-1 were completed during 2R17. Ultrasonic (UT) examinations were completed on the Reactor Vessel hot and cold leg nozzle dissimilar metal welds per N-770-1. UT examinations were performed on the RV Head penetrations; one nozzle (Penetration 41) required repair. A bare metal visual exam was completed on the RV Head outside diameter surface, and penetrant examinations were performed on the inside diameter surface of the RV Head for all previously repaired penetrations in accordance with N-729-1.

IWE Examination

During 2R17, a reexamination of Random Location RN-063 was completed. The examination of this location in 2R15 exceeded the statistical screening criteria. The 2R16 and 2R17 examinations found that the thickness is essentially unchanged since the 2R15 examination.

Pressure Testing

The Class 1 piping System Leakage Test was performed prior to plant start-up. All Class 1 bolted connections subject to the examination requirements of IWA-5242, "Insulated Components" were examined during 2R17. Also, Class 2 and 3 system functional and system inservice tests were performed on various systems to fulfill the current 40-month pressure testing requirement.

Deficiency Resolution

There were four UNSAT examinations during 2R17. One was boric acid related that was evaluated and resolved by the Boric Acid Team. The three other UNSAT exams were associated with the Reactor Head nozzle penetration welds. Two previously repaired penetration welds had UNSAT PT indications that were cleared by minor surface preparation. One penetration (Penetration 41) required repair welding.

Steam Generator Tube Examination

One hundred percent of the in-service tubes were examined in the three steam generators. Results of the examinations are submitted to regulatory authorities in accordance with Technical Specification requirements.

NIS-2 Forms

Included as Appendix II are the NIS-2 Forms associated with ASME XI repairs and replacements.

APPENDIX I - 2R17 ISI SCOPE

Sum_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
017850	CHS-047	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	107419	B
064700	2DGS-PSR092	SUPPORT	1	F-A	F1.10R	VT-3	110772	c
100163	2RN-063	RANDOM LINER 63	MC	IWE	E4.12	UTT	Plate O7	B
106350	RCS-018	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	107009	B
131950	RCS-089	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	107015	B
148900	2RCS-084-2-2	PIPE WELD	1	R-A	R1.11	UT	110235	c
159250	RCS-086	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	110901	B
187550	2RCS*PRE21-HTR-SLEEVES	HEATER PENETRATION SLEEVES	1	WCAP	0G09140	VT-2	E-1D-1	B
200044	BC-2RCS-FE480-MJ-1	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	107005	B
200045	BC-2RCS-FE481-MJ-1	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	107010	B
200046	BC-2RCS-FE482-MJ-1	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	107015	B
200047	BC-2RCS-SG21A-MNWYS	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	E-1B	B
200048	BC-2RCS-SG21B-MNWYS	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	E-1B	B
200049	BC-2RCS-SG21C-MNWYS	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	E-1B	B
200088	BC-2RCS-REV21-Flg Bolts	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	E-1A	B
200089	BC-2RCS-PRE21-Manway	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2	E-1D-1	B
200094	PT-2-Leakage Package 4	DGS pumps discharge piping	2	Press	Test	VT-2	RM-409-1	B
200112	PT-2-Leakage Package 20	2BVT-13.5 2RSSP21A Pump run	2	Press	Test	VT-2	RM-414C-1	B
200114	PT-2-Leakage Package 22	2BVT-13.5 2RSSP21C Pump run	2	Press	Test	VT-2	RM413-1	B
200115	PT-2-Leakage Package 23	2BVT-13.5 2RSSP21D Pump run	2	Press	Test	VT-2	RM413-1	B
200120	PT-2-Leakage Package 29	Mode 3 walkdown	1	Press	Test	VT-2	N/A	B
200136	PT-2-Leakage Package 45	Leakage during 2OST-11.1 2SIS-P21A	2	Press	Test	VT-2	RM-411-1	B
200142	PT-2-Leakage Package 51A	Leakage during 2OST-36.1- (OUTAGE)	3	Press	Test	VT-2	RM-430-2	B
200144	PT-2-Leakage Package 52A	Leakage during 2OST-36.2 -(OUTAGE)	3	Press	Test	VT-2	RM-430-2	B
206950	2REV-HEAD-OD	VESSEL HEAD OD SURFACE	1	N-729	B4.10	VE	E-1A-2	B
206960	2REV-HEAD-PENE-ID	VESSEL HEAD PENETRATIONS	1	N-729	B4.20	UT	E-1A-2	B
206970	2REV-HEAD-PENE-16	PENE 16 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
206971	2REV-HEAD-PENE-51	PENE 51 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
206972	2REV-HEAD-PENE-56	PENE 56 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
206973	2REV-HEAD-PENE-61	PENE 61 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
206974	2REV-HEAD-PENE-49	PENE 49 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
206975	2REV-HEAD-PENE-57	PENE 57 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
206976	2REV-HEAD-PENE-44	PENE 44 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	B
217900	2RCS*REV21-N-23	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	c
218000	2RCS*REV21-N-24	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	E
218100	2RCS*REV21-N-25	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	c

APPENDIX I - 2R17 ISI SCOPE

Sum_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
218200	2RCS*REV21-N-26	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	E
218300	2RCS*REV21-N-27	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	c
218400	2RCS*REV21-N-28	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	E
235845	2REV-BMI-PENE-OD	RV Bottom Mounted Inst Nozzles	1	N-722	B15.80	VE	E-1A-2	B
266250	SIS-045B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	1107107	B
266650	SIS-044B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	1107121	B
269250	SIS-046B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	1107123	B
272150	SIS-090B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	110777	B
275250	SIS-085B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	110785	B
277250	SIS-087B	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	110789	B
291950	2SIS-006-15-1	LOOP B C/L INJECTION	1	MRP	146	UT	110801	B
295350	2SIS-006-24-1	LOOP B H/L INJECTION	1	MRP	146	UT	110802	B
298650	2SIS-006-12-1	LOOP A C/L INJECTION	1	MRP	146	UT	110818	B
301650	2SIS-006-26-1	LOOP A H/L INJECTION	1	MRP	146	UT	110819	B
307350	2SIS-006-25-1	LOOP C H/L INJECTION	1	MRP	146	UT	110830	B
307685	BDG-004	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110-399	B
307690	BDG-005	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110-447	B
307695	BDG-006	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110-404	B
314070	CHS-028B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108301	B
317470	CHS-028C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108302	B
324670	CHS-028A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108304	B
325850	CHS-026E	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108304	B
332270	CHS-028D	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108306	B
342550	CHS-026F	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108313	B
373870	CHS-010	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108342	B
389450	CHS-016C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108396	B
389650	CHS-019A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108396	B
393550	CHS-018C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108397	B
393750	CHS-021A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108397	B
397750	CHS-017C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108398	B
397950	CHS-020A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108398	B
434750	CHS-050A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110298	B
495750	MSS-056	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	510206	B
495850	MSS-054	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	510207	B
496050	MSS-055	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	510207	B
500770	QSS-016	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	520-118	B

APPENDIX I - 2R17 ISI SCOPE

Sum_No	Component_ID	Description	Class	Category	Item	Method	Iso	Status
505460	QSS-015	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	520-114C	B
507460	QSS-020	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	107935	B
511015	QSS-019	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	107938	B
613800	2RSS*E21A-N-12	NOZZLE TO SHELL REINF PAD WELD	2	C-B	C2.11	PT	E-2L-2	B
613850	2RSS*E21A-N-12A	NOZZLE TO SHELL REINF PAD WELD	2	C-B	C2.11	PT	E-2L-2	B
613900	2RSS*E21A-N-13	NOZZLE TO SHELL REINF PAD WELD	2	C-B	C2.11	PT	E-2L-2	B
613950	2RSS*E21A-N-13A	NOZZLE TO SHELL REINF PAD WELD	2	C-B	C2.11	PT	E-2L-2	B
617250	2RSS*E21A-C-17	NOZZLE WELD	2	C-B	C2.11	PT	E-2L-2	B
617270	2RSS*E21A-C-18	NOZZLE WELD	2	C-B	C2.11	PT	E-2L-2	B
649970	SIS-036B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108105	B
662950	SIS-037B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108109	B
674350	SIS-065B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108307	B
676650	SIS-064B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108310	B
681370	SIS-062B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	410-548	B
717070	SIS-060B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	109932	B
727050	SIS-081A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110140	B
728150	SIS-080A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110141	B
732250	SIS-079A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110144	B
750350	SIS-056A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110255	B
751470	SIS-056B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110274	B
773850	SIS-070B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110774	B
775350	SIS-072B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110775	B
787770	SIS-056C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	110798	B
811700	2CCP-PSSP317A	SNUBBER	3	F-A	F1.30N	VT-3	107203	c
811800	2CCP-PSSP317B	SNUBBER	3	F-A	F1.30N	VT-3	107203	c
873357	2FWE-PSSP010	SNUBBER	3	F-A	F1.20N	VT-3	101709	c
999980	2CNMT-LINER	CONTAINMENT LINER	MC	E-A	E1.11	GV	N/A	B
999983	2CNMT-MOISTBARR	MOISTURE BARRIER	MC	E-A	E1.11	GV	N/A	B
999985	2CNMT-BLDFLG	FUEL CANAL BLIND FLANGE BOLTING	MC	E-A	E1.11	VT-3	N/A	B
999987	2CNMT-ELEC-PENE-BLTG	ELEC PENETRATION BOLTING	MC	E-A	E1.11	GV	N/A	B

STATUS LEGEND:

c = Complete, for code credit

B = Complete, multiple examinations in Interval

E = Complete, extra, no code credit

APPENDIX II

REPAIR-REPLACEMENT ABSTRACT
AND
NIS-2 FORMS

REPAIR-REPLACEMENT ABSTRACT

FORM NO.	FUNCTIONAL LOCATION	ORDER NO.	COMMENTS
3282	2SWS-MOV102C2	200514281	Installed
3308	2CHS-906	200247093	Installed
3394	2CHS-23	200410300	Corrected
3447	2CHS-7	200409338	Installed
3448	2CHS-8	200409346	Installed
3452	2CHS-48	200409352	Installed
3460	2RCS-7	200399659	Installed
3476	2RSS-PSSP139A	200467133	Installed
"	2RSS-PSSP139B	"	Installed
3526	2CCP-E21A	200481295	Installed
3532	2-CCP-010-482-3	200508409	Corrected
"	2-CCP-016-570-3	"	Corrected
3540	2-SWS-004-190-3	200536486	Corrected
3545	2FWE-STRY200	200461292	Installed
3579	2CCP-DCV100-2	200493332	Installed
3591	2SWS-112	200542730	Installed
3594	2RCS-PCV455C	200542846	Corrected
3595	2RCS-SG21A	47459821	Corrected
3596	2RCS-SG21B	47459821	Corrected
3597	2RCS-SG21C	47459821	Corrected
3602	2RCS-RV551B	200465406	Installed
"	"	200542555	Installed
"	"	55115381	Installed
3649	2EGA-STR1	200536240	Corrected
3652	2-SWS-004-190-3	200536488	Corrected
"	2SWS-1233	"	Installed
3654	2-SWS-004-190-3	200542931	Corrected
"	2SWS-PSA230S	"	Corrected
"	2SWS-PSA745Y	"	"
"	2SWS-PSA747Y	"	"
"	2SWS-PSA748Y	"	"
3655	2SWS-004-191-3	200535478	Corrected
"	2SWS-PSR724Y	"	"
3656	2MSS-SOV105B	200545337	Corrected
3657	2MSS-SOV105E	200545338	Corrected
3662	2CHS-MOV201	200564460	Corrected
3674	2-SWS-004-193-3	200575533	Corrected
3696	2CHS-1	200451401	Installed
3701	2SWS-MOV102B	200514280	Installed
3704	2-SWS-012-188-3	200551984	Corrected
3712	2CHS-FCV113A	200586378	Corrected
3713	2FWE-PSSP009	200546936	Installed
3714	2RSS-PSSP124A	200546968	Installed
3715	2RSS-PSSP124B	200546953	Installed
3716	2RSS-PSSP129A	200546969	Installed

REPAIR-REPLACEMENT ABSTRACT

FORM NO.	FUNCTIONAL LOCATION	ORDER NO.	COMMENTS
3717	2RSS-PSSP129B	200546954	Installed
3718	2MSS-PSSP002A	200546960	Installed
3719	2MSS-PSSP003A	200546961	Installed
3720	2RCS-PSSP026	200546945	Installed
3722	FWE-8-3B	200584746	Corrected
3723	SWS-142-2A	200584747	Corrected
3724	2-RCBX	200543718	Installed
3725	2CHS-E22	200594179	Corrected
3727	2-SWS-004-193-3	200596789	Corrected
"	2SWS-PSR338Y	"	"
"	2SWS-PSA288Y	"	"
3728	SWS-158-3A1	200539504	Corrected
3729	SWS-157-4	200539506	Corrected
3730	2SIS-125	200319040	Corrected
3731	2SIS-P21B	200600757	Corrected
"	"	200600532	"
"	"	55118921	"
3733	2RSS-E21A	200543748	Corrected
3735	2RHS-E21A	200545385	Corrected
3736	2RCS-REV21	200601335	Corrected
"	"	200601788	"
"	"	200601789	"
3737	2CHS-FCV122	200539472	Corrected
3738	2RSS-E21B	200543749	Corrected
3740	2SVS-PCV101A	200604096	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 Rev. 01

Report Number 3282

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

Date 06/09/2014

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

Sheet 1 of 2

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Order #200514281
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS Construction Services
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, — Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Henry Pratt	D-0014-2-1	N/A	2SWS-MOV102C2	1978	Removed	Yes
Valve	Weir Valves	1-55533-A	N/A	2SWS-MOV102C2	2014	Installed	Yes
Stud, 1-1/4"	Trust Manuf.	N/A	N/A	Trace Code RR05	2012	Installed	No
Nut, 1-1/4"	Nova Machine	N/A	N/A	Trace Code 9P56	2014	Installed	No
Nut, 1-1/4"	Trust Manuf.	N/A	N/A	Trace Code CC16	2010	Installed	No
Nut, 1-1/4"	Nova Machine	N/A	N/A	Ht. #M14080	2006	Installed	No

7. Description of Work Replaced valve with spare, installed new flange studs & nuts.

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. 01

Report Number 3282

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

*Record test pressure and temperature

9. Remarks Code Data Report attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

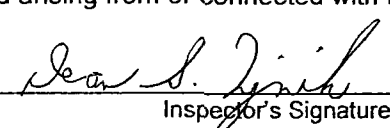
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date June 09, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NB9428A-IE PA2384
National Board, State, Province, and Endorsements

Date 6-9-, 20 14

Pg. 1 of 2

Certificate Holder's Serial No. 1-55533-A8. Design conditions 275 psi 100 °F or valve pressure class _____
(pressure) (temperature) 1509. Cold working pressure 275 psi at 100°F10. Hydrostatic test 425 psi. Disk differential test pressure 165 psi11. Remarks: Hex Cap Screw SA 193 Gr B8M HT# : E110435 TR# 271C

CERTIFICATION OF DESIGN

Design specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E
(when applicable)Design report certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2606 Expires 6-13-16Date 1/14/14Name WEIR VALVES & CONTROLS USA INC.

(N Certificate Holder)

Signed

(authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ME and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 12-27-2013 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 equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 1-14-2014 Signed

(Authorized Inspector)

Commission 4812715 ABLE, ME 800

(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

As Required by the Provisions of the ASME Code Section XI

NOP CC-5703-22 Rev. 01

Report Number 3308

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 04/24/2014Sheet 1 of 1Unit No. 2Order #200247093

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Q3)5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, S'72 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Wyle	N/A	N/A	2CHS-906	1986	Removed	No
Check Valve	Wyle	N/A	N/A	2CHS-906	2010	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CG-5703-02 Rev. 01

Report Number 3100

9. Remarks No Code Data Report available. Valve is submerged in the oil reservoir and there it is not possible to
verify system leakage. New valve was supplied under purchase Order 45334523.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White [Signature] Nuclear Engineer V Date April 24, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 4-24-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 9428 ANIB PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-24-, 20 14

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 3394

A4.414A

1. Owner FirstEnergy Nuclear ^{OPERATING COMPANY} Generation Corp.
~~Ohio Edison Co. (lessee) and The Toledo Edison Co. (lessee)~~
 (NAME) See 4/31/14

Date January 9, 2013

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

Sheet 1 of 2

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
 (ADDRESS)

Work Order #200410300

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

3. Work Performed By BVPS Maintenance
 (NAME)

P.O. Box 4, Shippingport, PA 15077
 (ADDRESS)

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Chemical and Volume Control (Class 2)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Westinghouse	03000CS8800 000002W720 153	W11190	2CHS-23	1976	Corrected	Yes
Disc	Westinghouse	7638	N/A	Ht. #31233	1985	Installed	No
Disc	Stl. Imp. Forg. Co.	2252	N/A	Ht. #64026	1976	Removed	No

7. Description of Work Replaced valve disc with spare.

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 3394

A4.414A

*Record test pressure and temperature

9. Remarks NPV-1 Data Report attached. No Code Data Report for disc is available.

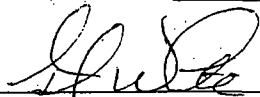
Applicable ~~Manufacturer's Data Reports~~ to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

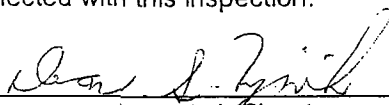
Certificate of Authorization No. N/A Expiration Date N/A

Signed T. White  Staff Engineer Date January 09, 20 13
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 4-11-11 to 11-2-12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 A-IB PA 2384
National Board, State, Province, and Endorsements

Date 1-10-, 20 13

FORM NPE-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

- Westinghouse Electro-Mechanical Division
Cheswick Avenue, Cheswick, PA 15024
1. Manufactured by Cheswick Avenue, Cheswick, PA 15024 Order No. 1H014
(Name & Address of Manufacturer)
- Duquesne Light Company
435 6th Avenue, Pittsburgh, PA 15222
2. Manufactured for 435 6th Avenue, Pittsburgh, PA 15222 Order No. PG(N)88562-AR6AR1
(Name and Address)
3. Owner Duquesne Light Company
4. Location of Plant Duquesne Light - Beaver Valley 2
5. Pump or Valve Identification 03MULS980C000002H7201534
Valve I.D. 3C78
3"-1500 Swing Check Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 5059D42 Prepared by J. S. Zelenak

(b) National Board No. W11190

6. Design Conditions 2500 psi 650 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class _____

Edition 1971, Addenda Date W72, Case No. 1553-1

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	S/N-3411	SA182 GR.F316	Stl.Imp.Forrg.Co.
Bonnet	S/N-1772	SA240 GR.F316	G.O. Carlson Inc.
Disc	S/N-2252	SA182 GR.F316	Stl.Imp.Forrg.Co.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR.660	R.F.C. Corp.	Ltr. No. C34448-6
Main Flange Nuts	SA194 GR.B6	SPS Co.	Ht. No. 60187
(d) Other Parts			

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by James C. DiPerna (1) Prof. Eng. State PA Reg. No. 15372-E
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State PA Reg. No. 10729-E
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 9-23- 19 76 Signed Westinghouse Electro-Mechanical Division By J. Szelenak
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on OCT 23 1975, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, 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 damage or a loss of any kind arising from or connected with this inspection.

Date SEP 28 1975

CB Miller
 (Inspector)

Commissions

NB 4349
 (National Board, State, Province and No.)

VDP-PAGE 6a OF 30

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. 01

Report Number 34471. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/23/2014Sheet 1 of 2Unit No. 2Order #200409338

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	ITT Grinnell	74-10817-4-12	WR1401	2CHS-7	1976	Removed	Yes
Valve	Velan	131001-2	N/A	2CHS-7	2014	Installed	Yes
Pipe, 2"	Energy & Process	N/A	N/A	Ht. #524234	2010	Installed	No
Coupling, 2"	Energy & Process	N/A	N/A	Ht. #100041	2012	Installed	No

7. Description of Work Replaced valve and pipe and installed coupling.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. 01

Report Number 3447

*Record test pressure and temperature

9. Remarks Code Data Report attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Thomas White
Owner or Owner's Designee, TitleNuclear Engineer V Date May 30, 20 14**CERTIFICATE OF INSERVICE INSPECTION**

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zirk
Inspector's SignatureCommissions NB9428 A-1 E B PA 2384
National Board, State, Province, and EndorsementsDate 6-2-, 20 14

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

1. Manufactured and certified by		VELAN INC. 2125 WARD AVE, MONTREAL, QUEBEC, CANADA, H4M1T6						
		(name and address of N Certificate holder)						
2. Manufactured for		FIRST ENERGY CORPORATION, BEAVER VALLEY NUCLEAR POWER STATION, P.O BOX 347, SHIPPINGPORT, PA. 15077-0347, USA						
		(name and address of Purchaser)						
3. Location of installation		BEAVER VALLEY NUCLEAR POWER PLANT, ROUTE 168, SHIPPINGPORT-BEAVER, PA. 15077, USA						
		(name and address)						
4. Model No., Series No., or Type	BALL	Drawing	P011-861693-N01	Rev.	F	CRN	N/A	
5. ASME Code, Section III, Division 1	1971	SUMMER 1973	3	N/A				
	(edition)	[Addenda (if applicable) (date)]	(class)	(Code Case no.)				
6. Pump or valve	VALVE	Nominal inlet size	2"	Outlet size	2"			
7. Material								
(a) valve	Body	SA-182, F316	Bonnet	SA-182, F316	Disk	AMS 5894, STELLITE 6B	Bolting	SA-564, 630 H1100
(b) pump	Casing	N/A	Cover	N/A	Bolting	N/A		SA-194, GR 8M

[illegible]

(07/10)

PAGE 3 OF 7 988

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

Certificate Holder's Serial No. 131001

8. Design conditions 200 psig 150 °F or valve pressure class 150
(pressure) (temperature)

9. Cold working pressure 275 psig

10. Hydrostatic test 425 psig Disk differential test pressure 300 psig

11. Remarks Material ASME Code Section II 2004 Edition, No Addenda

CERTIFICATION OF DESIGN

Design Specification certified by J. TRENTON CREAMER P.E. State PA Reg. no. 36005-E
Design Report certified by PAUL MAJOR P.E. State QC Reg. no. 37162

CERTIFICATION OF COMPLIANCE

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

N Certificate of Authorization No. N-2797-1 Expires May 4, 2016

Date MAR 18 2014 Name VELAN INC. Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by REGIE DU BATIMENT

of QUEBEC have inspected the pump, or valve, described in this Data Report on 27 MAR 2014, 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 27 MAR 2014 Signed [Signature] Commission C CAMPANA QC # 9963
(Authorized Nuclear Inspector) NB # 12869 A, N
REGIE DU BATIMENT QUEBEC
(National Board Number and Endorsement)

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. 01

Report Number 3448

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/30/2014Sheet 1 of 2Unit No. 2Order #200409346

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Diaphragm Valve	ITT Grinnell	74-10817-4-53	WR1442	2CHS-8	1976	Removed	Yes
Ball Valve	Velan	131001-1	N/A	2CHS-8	2014	Installed	Yes
Pipe, 2"	Energy & Process	N/A	N/A	Ht. #524234	2010	Installed	No
Coupling, 2"	Energy & Process	N/A	N/A	Ht. #100041	2012	Installed	No

7. Description of Work Replaced valve and pipe with spare and installed new coupling.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. 01

Report Number 3448

*Record test pressure and temperature

9. Remarks Code Data Report attached.

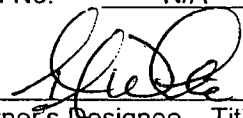
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date June 02, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB 9428 A NIB PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-2-, 20 14

FORM NPV-1 CERTIFICATE HOLDER'S 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 and certified by		VELAN INC. 2125 WARD AVE, MONTREAL, QUEBEC, CANADA, H4M1T6						
		(name and address of N Certificate holder)						
2. Manufactured for		FIRST ENERGY CORPORATION. BEAVER VALLEY NUCLEAR POWER STATION. P.O BOX 347. SHIPPINGPORT, PA. 15077-0347, USA						
		(name and address of Purchaser)						
3. Location of installation		BEAVER VALLEY NUCLEAR POWER PLANT, ROUTE 168. SHIPPINGPORT-BEAVER, PA. 15077, USA						
		(name and address)						
4. Model No., Series No.; or Type		BALL	Drawing	P011-861693-N01	Rev.	F	CRN	N/A
5. ASME Code, Section III, Division 1		1971	SUMMER 1973		3	N/A		
		(edition)	[Addenda (if applicable) (date)]		(class)	(Code Case no.)		
6. Pump or valve		VALVE	Nominal inlet size	2"	Outlet size	2"		
7. Material								
(a) valve	Body	SA-182, F316	Bonnet	SA-182, F316	Disk	AMS 5894, STELLITE 6B	Bolting	SA-564, 630 H1100
(b) pump	Casing	N/A	Cover	N/A	Bolting	N/A		SA-194, GR 8M

[illegible]

*Supplemental information in the 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; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(07/10)

PAGE 3 OF 7 588

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

Certificate Holder's Serial No. 131001

8. Design conditions 200 psig 150 °F or valve pressure class 150
(pressure) (temperature)

9. Cold working pressure 275 psig

10. Hydrostatic test 425 psig Disk differential test pressure 300 psig

11. Remarks Material ASME Code Section II 2004 Edition, No Addenda

CERTIFICATION OF DESIGN

Design Specification certified by J. TRENTON CREAMER P.E. State PA Reg. no. 36005-E
 Design Report certified by PAUL MAJOR P.E. State QC Reg. no. 37162

CERTIFICATION OF COMPLIANCE

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

N Certificate of Authorization No. N-2797-1 Expires May 4, 2016

Date MAR 18 2014 Name VELAN INC. Signed *Paul Major*
(N Certificate Holder) (authorized representative)

CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by REGIE DU BATIMENT

of QUEBEC have inspected the pump, or valve, described in this Data Report on 27 MAR 2014, 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 27 MAR 2014 Signed *Campana* Commission C CAMPANA QC # 9963
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

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. 01

Report Number 3452

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/29/2014Sheet 1 of 2Unit No. 2Order #200409352

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Diaphragm Valve	ITT Grinnell	74-10817-4-14	WR1403	2CHS-48	1976	Removed	Yes
Ball Valve	Velan	131001-5	N/A	2CHS-48	2014	Installed	Yes
Pipe, 2"	Energy & Process	N/A	N/A	Ht. #524234	2010	Installed	No
Coupling, 2"	Energy & Process	N/A	N/A	Ht. #100041	2012	Installed	No

7. Description of Work Replaced valve and pipe with spare and installed new coupling.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. 01

Report Number 3452

*Record test pressure and temperature

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 387.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Thomas White
Owner or Owner's Designee, TitleNuclear Engineer V Date May 30, 20 14**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zwick
Inspector's SignatureCommissions NB9428 ANIB PA2384
National Board, State, Province, and EndorsementsDate 6-2-, 20 14

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

1. Manufactured and certified by		VELAN INC. 2125 WARD AVE, MONTREAL, QUEBEC, CANADA. H4M1T6					
		(name and address of N Certificate holder)					
2. Manufactured for		FIRST ENERGY CORPORATION. BEAVER VALLEY NUCLEAR POWER STATION. P.O BOX 347.					
		SHIPPINGPORT, PA. 15077-0347. USA					
		(name and address of Purchaser)					
3. Location of installation		BEAVER VALLEY NUCLEAR POWER PLANT, ROUTE 168. SHIPPINGPORT-BEAVER. PA. 15077. USA					
		(name and address)					
4. Model No., Series No.; or Type	BALL	Drawing	P011-861693-N01	Rev.	F	CRN	N/A
5. ASME Code, Section III, Division 1	1971	SUMMER 1973	3	N/A			
	(edition)	[Addenda (if applicable) (date)]	(class)	(Code Case no.)			
6. Pump or valve	VALVE	Nominal inlet size	2"	Outlet size	2"		
7. Material							
(a) valve	Body	SA-182, F316	Bonnet	SA-182, F316	Disk	AMS 5894, STELLITE 6B	SA-564, 630 H1100
(b) pump	Casing	N/A	Cover	N/A	Bolting	N/A	SA-194, GR 8M

[illegible]

*Supplemental information in the 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; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

{07/10}

PAGE 3 OF 7

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

Certificate Holder's Serial No. 131001

8. Design conditions 200 psig 150 °F or valve pressure class 150
(pressure) (temperature)

9. Cold working pressure 275 psig

10. Hydrostatic test 425 psig Disk differential test pressure 300 psig

11. Remarks Material ASME Code Section II 2004 Edition, No Addenda

CERTIFICATION OF DESIGN

Design Specification certified by J. TRENTON CREAMER P.E. State PA Reg. no. 36005-E
Design Report certified by PAUL MAJOR P.E. State QC Reg. no. 37162

CERTIFICATION OF COMPLIANCE

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

N Certificate of Authorization No. N-2797-1 Expires May 4, 2016

Date MAR 18 2014 Name VELAN INC. Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by REGIE DU BATIMENT

of QUEBEC have inspected the pump, or valve, described in this Data Report on 27 MAR 2014, 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 27 MAR 2014 Signed [Signature] Commission C CAMPANA QC # 9963
(Authorized Nuclear Inspector) NB # 12869 A, N
REGIE DU BATIMENT QUEBEC (National Board Number and Endorsement)

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. 01

Report Number 3460

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 06/03/2014Sheet 1 of 2Unit No. 2Order #200399659

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Class 1)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Flowserve Corp.	E839R-1-1	N/A	2RCS-7	2002	Removed	Yes
Valve	Conval, Inc	81647-W-1.02	N/A	2RCS-7	2012	Installed	Yes
Pipe, 2"	Energy & Process	N/A	N/A	Ht. #529524	2011	Installed	No
Coupling, 2"	Energy & Process	N/A	N/A	Ht. #420689	2012	Installed	No

7. Description of Work Replaced valve and pipe, installed new coupling.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. 01

Report Number 3460

*Record test pressure and temperature

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1518.

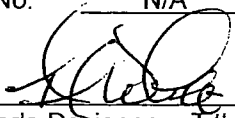
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date June 03, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB9428 ANIB PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-6-, 20 14

Pg. 1 of 2

7. Material:

(a)	(b)	(c)	(d)	(e)
Certificate Holder's Serial No.	National Board No.	Body/Casing Serial No.	Bonnet/Cover Serial No.	Disk Serial No.

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

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

Certificate Holder's Serial No. 81647W-1.01 to -1.02

8. Design Conditions 2500 650 or valve pressure class N/A
 (pressure) (temperature)

9. Cold working pressure 4080

10. Hydrostatic test 6125 PSI , Disk differential test pressure 4500

11. Remarks Valve S/N : 81647W-1.01 = Yoke S/N : 09-176-5 , Valve S/N : 81647W-1.02 = Yoke S/N : 09-176-8,
 Yoke Material: SA182-F316

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA. Reg. no. 036614-E
 Design Report certified by Jeremiah O'Callaghan P.E. State CT. Reg. no. 24824

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-3199 Expires July 21, 2015
 Date 8/2/12 Name Conval, Inc. Signed Ray H. McConnell

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT. and employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut
 of Hartford, CT have inspected the pump, or valve, described in this Data Report on
 08-02-2012 , 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 I.

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 08-02-2012 Signed Elizabeth Hart Commissions ANIC N/39384 CT113F

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. 01

Report Number 34761. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 05/23/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200467133

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

3. Work Performed By BVPS Construction Services
(NAME)Type Code Symbol Stamp N/AP.O. Box 4, Shippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul-Munroe	PD87767-1654	N/A	2RSS-PSSP139A	1986	Removed	No
Snubber	Lisega	31300783/005	N/A	2RSS-PSSP139A	2014	Installed	No
Snubber	Paul-Munroe	PD87767-1655	N/A	2RSS-PSSP139B	1986	Removed	No
Snubber	Lisega	31300783/008	N/A	2RSS-PSSP139B	2014	Installed	No

7. Description of Work Replaced snubbers with new.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. 01

Report Number 3476

*Record test pressure and temperature

9. Remarks No Code Data Reports available. Snubber supplied to ANSI B31.1 1967E-S'73A.

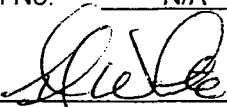
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 23, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 189428A-IB PA 2384
National Board, State, Province, and Endorsements

Date 6-6-, 20 14

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 3526

1. Owner FirstEnergy Nuclear Operating Company
Edison Co. (lessee) and The Toledo Edison Co. (lessee)
(NAME) 160 43114

Date 05/09/2013

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

Sheet 1 of 2

Unit No. 2

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

Shippingport, PA 15077
(ADDRESS)

WO# 200481295

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

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

P.O. Box 4 Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Component Cooling Water (Class 3)

5. (a) Applicable Construction Code ASME Section III 1971 Edition, S'1972 Addenda, N/A Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Struthers Wells	1-73-06-31643-1	14335	2CCP-E21A	1977	Removed	Yes
Heat Exchanger	Holtec	2200-001	148	2CCP-E21A	2012	Installed	Yes
Flange	Energy & Processes	N/A	N/A	HT# HJN	2012	Installed	No
Bolting	Various*	N/A	N/A	Various*	Various	Installed	No
Round Bar	Energy & Process Corp	N/A	N/A	HT#JH6428	2010	Installed	No
Plate	Various*	N/A	N/A	Various*	Various	Installed	No
Tube Steel	Various*	N/A	N/A	Various*	Various	Installed	No
Masonry Anchor	Hilti	N/A	N/A	N/A	1997	Installed	No
Nut	Nova Machine	N/A	N/A	HT# 5Y92	2011	Installed	No

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 35267. Description of Work Replacement of heat exchanger and remove/reinstall various piping/supports.*Studs, nuts, tube steel and plate PO's and HT#'s are recorded on the back.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F


*Record test pressure and temperature

9. Remarks Previous NIS-2 Report Numbers: 3361. Code Data report Attached. Heat Exchanger PO/SN#: 45384722 / 2200-001, Flange PO/HT#: 45382777 / HJH, Studs and Nuts PO/HT#: 45347392/4S99, 45405273 / SS11, 45296662 / 2S82, 47199790 / 1R28, 45406037 / 7U37, 45379695 / 8898247, 47358625 / 6Z31 and 6371411 / 5Y92 Round Bar PO/HT# 45405163 / JH6428, Hilti PO# D160481, Plate PO/HT#'s: 47333265 / 1503662, 45405163 / 2505761-07, D152811 / U1064, Tube Steel PO/HT#'s: 47396582 / A207369, 47351643 / B106859, 47396582 / U40851, 45405247 / 040852.

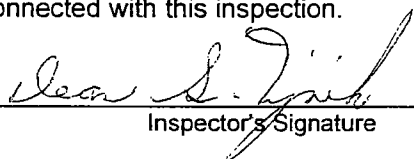
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Sciulli  Nuclear Engineer III Date May 10th, 20 13
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-10-13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions 189428 ANIB PA 2384
Inspector's Signature National Board, State, Province, and EndorsementsDate 5-10-, 20 13

FORM N-1 CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR VESSELS*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Holtec Manufacturing Division (See Remarks for Address)
(name and address of N Certificate Holder)

2. Manufactured for FENOC, Beaver Valley Power Station, P.O. Box 4, Shippingport, Pennsylvania 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Nuclear Power Plant, Route 168, Shippingport, Pennsylvania 15077
(name and address)

4. Type Horizontal Heat Exchanger 2200-001 ----- 8592 R3 148 2012
(horizontal or vertical) (tank, jacketed, heat ex.) (Certificate Holder's serial no.) (CRN) (drawing no.) (National Bd. no.) (year built)

5. ASME Code, Section III, Division 1 2007 2008 3 N-822
(edition) (Addenda (if applicable) (date)) (class) (Code Case no.)

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

6. Shell SA516-70 70,000 psi 1.25" & 0.5" 0.415" 35.5" 474.375"
(material spec. no.) (tensile strength) (nominal thickness) (minimum design thickness) (diameter ID) (length (overall))

7. Seams Type 1 None None 70 Type 1 None None 4
(long.) (HT¹) (RT) (eff. %) (girth) (HT¹) (RT) (no. of courses)

8. Heads ----- ----- ----- -----
(a) material spec. no. (tensile strength) (b) material spec. no. (tensile strength)

	Location (top, bottom, ends)	Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(b)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

If removable, bolts used ----- (material spec. no., size, quantity) Other fastening ----- (describe or attach sketch)

9. Jacket closure ----- (Describe as ogee & weld, bar, etc. If bar, give dimensions, describe, or sketch)

10. Design pressure² 225 at max. temp. 200 F Min. pressure-test temp. 70 F Pneu., hydro., or comb. test pressure 338

Items 11 and 12 to be completed for tube sections.

11. Tubesheets SA516-70* 35.5" 2.75" Welded
(stationary, material spec. no.) (diameter (subject to press.)) (thickness) (attachment (welded, bolted))

----- ----- ----- -----
(floating, material spec. no.) (diameter) (thickness) (attachment)

12. Tubes SA268 S44660 0.625" 18 BWG 1041 Straight
(material spec. no.) (OD) (thickness (inches or gage)) (no.) (type (straight or U))

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

13. Shell SA516-70 70,000 psi 1.25" & 0.5" 0.327" 35.5" 74.25"
(material spec. no.) (tensile strength) (nominal thickness) (minimum design thickness) (diameter ID) (length (overall))

14. Seams Type 1 None None 70 Type 1 None None 2
(long. (welded, dbl., single)) (HT¹ (yes or no)) (RT) (eff. %) (girth) (HT¹) (RT) (no. of courses)

15. Heads SA516-70 70,000 psi ----- -----
(a) material spec. no. (tensile strength) (b) material spec. no. (tensile strength) (c) material spec. no. (tensile strength)

	Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	Top, bottom, ends	-----	-----	-----	-----	-----	-----	-----	-----
(b)	Channel	2.5"	-----	-----	-----	-----	-----	41.5"	-----
(c)	Floating	-----	-----	-----	-----	-----	-----	-----	-----

If removable, bolts used (160) 0.75" SA193-B7 Studs, (320) 0.75" SA194-2H Nuts (material spec. no., size, quantity) Other fastening ----- (describe or attach sketch)

16. Design pressure² 175&FV at 120 F Min. pressure-test temp. 70 F Pneu., hydro., or comb. test pressure 263

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

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

17. Nozzles, inspection and safety valve openings

Purpose (inlet, outlet, drain, etc.)	Quantity	Diameter or Size	Type	How Attached	Material	Thickness	Reinforcement Material	Location
Inlet	1	20"	RFSO	Welded	SA350*	0.5"		Shellside
Outlet	1	20"	RFSO	Welded	SA350*	0.5"		Shellside
Inlet	1	20"	RFSO	Welded	SA350*	0.5"		Tubeside
Outlet	1	20"	RFSO	Welded	SA350*	0.5"		Tubeside
Vent	2	0.75"	SWC	Welded	SA105	6000#		
Drain	2	0.75"	SWC	Welded	SA105	6000#		
Auxiliary	8	0.75"	SWC	Welded	SA105	6000#		

18. Supports: Skirt No Lugs 0 Legs 2 Other _____ Attached Shell, Welded
 (yes or no) (quantity) (quantity) (describe) (where and how)

19. Remarks:

Item 1 - Keystone Commons, 200 Braddock Avenue, Turtle Creek, Pennsylvania 15145

Items 10 & 16 - Design and test pressures are psig

Item 11 - * Tubesheets clad with 0.25" thick SA240-N08367; cladding not included in design thickness

Item 17 - * Grade LF2

CERTIFICATION OF DESIGN

Design specification certified by Stephen Buffington P.E. State PA Reg. no. 035648-E
 Design report certified by Krishna Pal Singh P.E. State PA Reg. no. 20906-E

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N2918 Expires 06/23/2013
 Date 9/27/2012 Name Holtec Manufacturing Division Signed [Signature]
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by OneBeacon America Insurance

of Lynn, MA have inspected the component described in this Data Report on 09-27-2012, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component in accordance with the ASME Code, Section III, Division 1.

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

Date 09-27-2012 Signed [Signature] Commission NB-9838N
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

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

N Certificate of Authorization No. _____ Expires _____
 Date _____ Name _____ Signed _____
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

of _____ have compared the statements in this Data Report with the described component and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me on _____ and that to the best of my knowledge and belief, the Certificate Holder has constructed and assembled this component in accordance with the ASME Code, Section III, Division 1.

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

Date _____ Signed _____ Commission _____
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

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. 01

Report Number 3532

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

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

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Date 04/29/2014

Sheet 1 of 1

Unit No. 2

Order #200508409

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Component Cooling – Primary (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, --- Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Schneider Power	2-SR-15-02-CCP	N/A	2-CCP-010-482-3	1986	Corrected	Yes
Piping	Schneider Power	2-SR-15-02-CCP	N/A	2-CCP-016-570-3	1986	Corrected	Yes
Piping Subassembly	Power Piping	N-1141-2640	N/A	CCP-482-1A	1978	Removed	Yes
Cap, 10"	Energy & Process	N/A	N/A	Ht. Code LZ F2	2012	Installed	No
Valve	Masoneilan	AE897-1-1	N/A	2CCP-DCV101A	1982	Removed	Yes

Blind Flange, 16"	Energy & Process	N/A	N/A	Ht. Code HJH	2012	Installed	No
Flange, 16"	Schneider Power	N/A	N/A	CCP-570-1	1986	Removed	No
Elbow, 16"	Schneider Power	N/A	N/A	CCP-570-2	1986	Removed	No
Flange, 20"	Schneider Power	N/A	N/A	CCP-571-1	1986	Removed	No
Studs, 1"	Nova Machine	N/A	N/A	Ht. #226078	2005	Installed	No
Nuts, 1"	Nova Machine	N/A	N/A	Trace Code 5Y92	2011	Installed	No
Nuts, 1"	Nova Machine	N/A	N/A	Ht. #S66497	2009	Installed	No
Nuts, 1"	Nova Machine	N/A	N/A	Trace Code 4P71	2010	Installed	No
Piping Subassembly	Power Piping	N-1141-2629	N/A	CCP-570-3A1	1977	Removed	Yes

7. Description of Work Installed cap on 2-CCP-010-482-3; and blind flange, studs & nuts on 2-CCP-016-570-3
Removed 2CCP-DCV101A and spool pieces CCP-570-1, CCP-570-2, CCP-571-1, CCP-570-3A, and CCP-482-1A

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

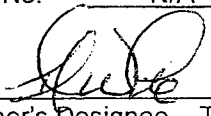
9. Remarks Code Data Reports for CCP-482-1A, CCP-570-3A1, 2CCP-DCV101A with N-5 Data Report for 2-SR-15-02-CCP.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

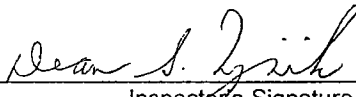
Certificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date May 07, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-7-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

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

Date 5-7-, 20 14

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. 01

Report Number 3540

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

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

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Date 05/05/2014

Sheet 1 of 1

Unit No. 2

Order #200536486

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, --- Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	Schneider Power	2-SR-30-07-SWS	N/A	2-SWS-004-190-3	1986	Corrected	Yes
Pipe Subassembly	Power Piping	N-1141-3613	N/A	SWS-190-4A	1979	Corrected	Yes
Pipe Subassembly	Power Piping	N-1141-3614	N/A	SWS-190-5	1979	Corrected	Yes
45° Elbow, 4"	Energy & Process	N/A	N/A	Ht. #468018	2010	Installed	No
Pipe, 4"	Energy & Process	N/A	N/A	Ht. #C26559	2007	Installed	No

7. Description of Work Replaced section of pipe on spool piece SWS-190-4A and elbow on spool piece SWS-190-5.

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. 01

Report Number 3540

*Record test pressure and temperature


9. Remarks Code Data Reports for spool pieces SWS-190-4A and SWS-190-5 with N-5 Data Report for 2-SR-30-
07-SWS. No Data Reports available for pipe and elbow.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

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

Signed Thomas White  Nuclear Engineer V Date May 07, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-8-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 JB9428ANIB PA2384
National Board, State, Province, and Endorsements

Date 5-8-, 20 14

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. 01

Report Number 35451. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA.15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 04/24/2014Sheet 1 of 2Unit No. 2Order #200461292

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Auxiliary Feedwater (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Strainer	Energy Steel & Supply	N38246-1	N/A	2FWE-STRY200	2013	Installed	Yes
Flange, 6"	Energy & Process	N/A	N/A	Ht. #A-22	2013	Installed	No
Flange, 6"	Energy & Process	N/A	N/A	Ht. Code JCK	2012	Installed	No
Stud, 3/4"	Trust Manufacturing	N/A	N/A	Ht. Code SS97	2013	Installed	No
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code 6S23	2012	Installed	No
Bushing, 2"x1"	Energy & Process	N/A	N/A	Lot #9886	2013	Installed	No

7. Description of Work Installed new strainer, pipe flanges, bushing, and studs & nuts.

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. 01

Report Number 3545

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

*Record test pressure and temperature

9. Remarks Code Data Report attached. Installed new strainer, fittings, and studs & nuts into existing pipe line

Applicable Manufacturer's Data Reports to be attached

2-FWE-006-016-3 (Drwg. 101601, N-5 #2SR-24-04-FWE).**CERTIFICATE OF COMPLIANCE**

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

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

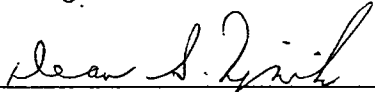
Signed Thomas White  Nuclear Engineer V Date April 24, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 4-24-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 A N I B PA 2384
National Board, State, Province, and Endorsements

Date 4-24-, 20 14

FORM N-1 CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR VESSELS*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Energy Steel & Supply Company, 3123 John Conley Dr., Lapeer, MI 48446
(Name and address of N Certificate Holder)
2. Manufactured for FENOC, Beaver Valley Power Station, PO Box 4, Mail Drop BV-SEB3, Shippingport, PA 15077
(Name and address of Purchaser)
3. Location of installation Beaver Valley Nuclear Power Plant, Route 168, Shippingport, PA 15077
(Name and address)
4. Type N/A Y-Strainer N38246-1 N/A 2132 Rev. 3 N/A 2013
(horizontal or vertical) (tank, jacketed, heat ex.) (Certificate Holder's serial no.) (CRN) (drawing no.) (National Bd. no.) (year built)
5. ASME Code, Section III, Division 1 1971 Summer 1973 3 N/A
(edition) (Addenda (if applicable) (date)) (class) (Code Case no.)

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

6. Shell SA216Gr.WCB 70 ksi 0.31 0.28" N/A N/A
(material spec. no.) (tensile strength) (nominal thickness) (minimum design thickness) (diameter ID) (length (overall))
7. Seams N/A N/A N/A N/A N/A N/A N/A N/A
(long.) (HT¹) (RT) (eff. %) (girth) (HT¹) (RT) (no. of courses)
8. Heads N/A N/A N/A N/A
(a) material spec. no. (tensile strength) (b) material spec. no. (tensile strength)

	Location (top, bottom, ends)	Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- If removable, bolts used SA193, Gr. B7, 1/2"-13 UNC-2A 2 3/4" Lg. Qty. 8 Other fastening SA194 Gr. 2H (Qty. 8)
(material spec. no., size, quantity) (describe or attach sketch)

9. Jacket closure N/A
(Describe as ogee & weld, bar, etc. If bar, give dimensions, describe, or sketch)
10. Design pressure² 150 psi at max. temp. 120°F Min. pressure-test temp. 225 psi Pneu. hydro or comb. test pressure 120°F

Items 11 and 12 to be completed for tube sections.

11. Tubesheets N/A N/A N/A N/A
(stationary, material spec. no.) (diameter (subject to press.)) (thickness) (attachment (welded, bolted))
- N/A N/A N/A N/A
(floating, material spec. no.) (diameter) (thickness) (attachment)
12. Tubes N/A N/A N/A N/A N/A
(material spec. no.) (OD) (thickness (inches or gage)) (no.) (type (straight or U))

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

13. Shell N/A N/A N/A N/A N/A N/A
(material spec. no.) (tensile strength) (nominal thickness) (minimum design thickness) (diameter ID) (length (overall))
14. Seams N/A N/A N/A N/A N/A N/A N/A N/A
(long. (welded, dbl., single)) (HT¹ (yes or no)) (RT) (eff. %) (girth) (HT¹) (RT) (no. of courses)
15. Heads N/A N/A N/A N/A N/A N/A
(a) material spec. no. (tensile strength) (b) material spec. no. (tensile strength) (c) material spec. no. (tensile strength)

	Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	Top, bottom, ends	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b)	Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(c)	Floating	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- If removable, bolts used N/A Other fastening N/A
(material spec. no., size, quantity) (describe or attach sketch)

16. Design pressure² N/A at N/A Min. pressure-test temp. N/A Pneu., hydro., or comb. test pressure N/A

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

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

Certificate Holder's Serial No. N38246-1

17. Nozzles, inspection and safety valve openings

Purpose (inlet, outlet, drain, etc.)	Quantity	Diameter or Size	Type	How Attached	Material	Thickness	Reinforcement Material	Location
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A

18. Supports: Skirt No Lugs 0 Legs 0 Other N/A Attached N/A
 (yes or no) (quantity) (quantity) (describe) (where and how)

19. Remarks:

Per customer PO 45381871 Rev. 3, Blow-off cover (flange) SA216 Gr. WCB, 2" NPT Plug 2000# SA105 and internal perforated screen 316 SS.

CERTIFICATION OF DESIGN

Design specification certified by Sanjib K. Mukherjee P.E. State PA Reg. no. 030650E
 Design report certified by Patrick Butler P.E. State VA Reg. no. 23815

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2994 Expires 06/21/2014
 Date 03/06/2013 Name Energy Steel & Supply Co. Signed [Signature]
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by HSB CT

of Hartford, Conn. have inspected the component described in this Data Report on 03-06-2013, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component in accordance with the ASME Code, Section III, Division 1.

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

Date 03/06/2013 Signed [Signature] Commission M1610 NB9486 ABINNS
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

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

N Certificate of Authorization No. _____ Expires _____
 Date _____ Name _____ Signed _____
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

of _____ have compared the statements in this Data Report with the described component and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me on _____ and that to the best of my knowledge and belief, the Certificate Holder has constructed and assembled this component in accordance with the ASME Code, Section III, Division 1.

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

Date _____ Signed _____ Commission _____
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

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 3579

1. Owner FirstEnergy Nuclear Generation Corp., Ohio Edison Co. (lessee) and the Toledo Edison Co. (lessee)
(NAME) *Operating Company*

Date 05/08/2013

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

Sheet 1 of 2

Unit No. 2

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

Shippingport, PA 15077
(ADDRESS)

WO# 200493332

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

3. Work Performed By BVPS- Mechanical Maintenance
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4 Shippingport, PA 15077
JS 5/10/13 (ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Primary Component Cooling Water (Class 3)

5. (a) Applicable Construction Code ASME Section III 19 80 Edition, S'1981 Addenda, N/A Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Trim Set	Copes Vulcan	N/A	N/A	2CCP-DCV100-2	1987	Removed	Yes
Trim Set	Copes Vulcan	0121-96229-1-1 (02-3)	N/A	2CCP-DCV100-2	2002	Installed	Yes

7. Description of Work Replace trim set and nuts.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

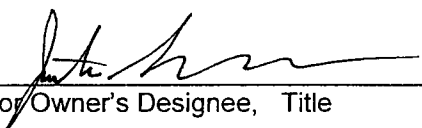
NOP-CC-5703-02 Rev. 00

Report Number 35799. Remarks No previous NIS-2 Data. Code Data Report attached, Trim Set PO# 7067878, Nuts PO/HT# 45178058 / X510.

Applicable Manufacturer's Data Reports to be attached

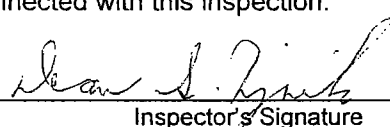
CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned J. Sciulli  Nuclear Engineer III Date May 8, 20 13
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-10-13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB 9428 AVEB PA 2384
National Board, State, Province, and EndorsementsDate 5-10-, 20 13

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

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

Pg. 1 of ____

1. Manufactured and certified by DeZurik/Copes-Vulcan, 9843 Martin Ave., Lake City, PA
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corp., Akron, OH
(name and address of Purchaser)
3. Location of installation Beaver Valley Storeroom, Shippingport, PA 15077
(name and address)
4. Type: E-266727MKD Rev.0 SA182 Type 304 85.7 ksi N/A 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1980 Summer 1981 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Plug for 8" Class 150# Valve Assy per Dwg. E-266211 Rev. 4
- Cust. P.O. 7067878 CV Job 0121-96229

Ref. CV Job 8320-95453

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>0121-96229-1-1</u>	(02-3) <u>N/A</u>
(2) _____	_____
(3) _____	_____
(4) _____	_____
(5) _____	_____
(6) _____	_____
(7) _____	_____
(8) _____	_____
(9) _____	_____
(10) _____	_____
(11) _____	_____
(12) _____	_____
(13) _____	_____
(14) _____	_____
(15) _____	_____
(16) _____	_____
(17) _____	_____
(18) _____	_____
(19) _____	_____
(20) _____	_____
(21) _____	_____
(22) _____	_____
(23) _____	_____
(24) _____	_____
(25) _____	_____

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

10. Design pressure 165 psi. Temp. 180 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(12/88)

This form (E00040I) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/91)

Certificate Holder's Serial Nos. 1-1 through 1-1

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-3053 Expires 10/5/04

Date 6-20-02 Name DeZurik/Copes-Vulcan Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by Factory Mutual Insurance Company of Johnston, RI have inspected these items described in this Data Report on 6-20-02, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 6-20-02 Signed [Signature] Commissions PA2274
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3591

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Valve Team
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/12/2014Sheet 1 of 2Unit No. 2Order #200542730

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1977 Edition, S'79 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Clow Corp.	83-2449-01N-01	N/A	2SWS-112	1984	Removed	Yes
Check Valve	Crane Nuclear	D3345	N/A	2SWS-112	2004	Installed	Yes
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code OC17	2013	Installed	No
Stud, 3/4"	Nova Machine	N/A	N/A	Trace Code 8D44	2013	Installed	No

7. Description of Work Replaced valve with spare and installed new flange studs and nuts.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. 01

Report Number 3591

*Record test pressure and temperature

9. Remarks Code Data Report attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date May 17, 20 14

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-18-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Smith
Inspector's Signature

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

Date 5-19-, 20 14

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 and certified by CRANE Nuclear, Inc., 860 Remington Boulevard, Bolingbrook, IL 60440
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corporation, PO Box 345 Shippingport, PA 15077
(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 D00-F127G-00 Drawing CB02833 Rev. A CRN N/A
5. ASME Code, Section III, Division 1: 1977 Summer 1979 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve Duo-Chek Valve Nominal inlet size 6 Outlet size 6
(in.) (in.)

7. Material:

(a) valve	Body	SA351 CF3M	Bonnet	N/A	Disk	SA351 CF3M	Bolting	SA479 TP 316A
(b) pump	Casting	N/A	Cover	N/A	Bolting	N/A		
(a)		(b)		(c)		(d)		(e)
Cert.		Nat'l		Body/Casing		Bonnet/Cover		Disk
Holder's		Board		Serial		Serial		Serial
Serial No.		No.		No.		No.		No.

D3344	N/A	D3338	N/A	D3340 & D3341
D3345	N/A	D3339	N/A	D3342 & D3343

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 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

Certificate Holder's Serial No. D3344 & D3345

- 8 Design conditions _____ Psi _____ °F or valve pressure class 150 (1)
(pressure) (temperature)
9. Cold working pressure 275 Psi at 100°F
10. Hydrostatic test 425 Psi. Disk differential test pressure 305 Psi
11. Remarks: SO No. 24823-01
Replacement Valve for Tag No.: VCI-015-A-3

CERTIFICATION OF DESIGN

Design Specifications certified by Alan J. Fiorente P.E. State PA Reg. No. 032366-E
Design Report certified by N/A P.E. State N/A Reg. No. N/A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2899 Expires September 24, 2005
Date 12/28/04 Name CRANE Nuclear, Inc. Signed Jerome A. Kurowski
(N Certificate Holder) (authorized representative)
Jerome A. Kurowski, P.E.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by HSBCT of Hartford, CT Have inspected the pump, or valve, described in this Data Report on 12/28/04 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 loss of any kind arising from or connected with this inspection.

Date 12/28/04 Signed Fred Ouyang Commissions IL 1005
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. And no.)
Fred Ouyang

(1) For manually operated valves only.

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 35941. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 05/28/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 2Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200542846

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

3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AP.O. Box 4, Shippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Class 1)5. (a) Applicable Construction Code Section III 1977 Edition, S'79 Addenda, Code Case —(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Power Relief Valve	Garrett Pneumatic	P-121	N/A	2RCS-PCV455C	1983	Corrected	Yes
Plug	Tyco Valves & Controls	N96012-94-0181	N/A	N/A	2011	Installed	Yes

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3594


9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 2029. Copy of NPV-1 attached to NIS-2 #800.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

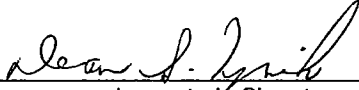
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date May 28, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 AND PA 2384
National Board, State, Province, and Endorsements

Date 6-6-, 20 14

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

As required by the Provisions of the ASME Code, Section III, Division 1 - Not to Exceed One Day's Production

1. Manufactured and certified by Tyco Valves & Controls, LP dba Anderson Greenwood Crosby, 55 Cabot Blvd, Mansfield, MA 02048
(Name and Address of N Certificate Holder)
2. Manufactured for FIRST ENERGY CORP.
(Name and Address of Purchaser or Owner)
3. Location of Installation BEAVER VALLEY NUCLEAR POWER PLANT, SHIPPINGPORT PA
(Name and Address)
4. Type DS-C-67970-13 REV. L ASME SA479 TYPE 316 75,000 — 2011
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1977 Summer 1979 1 N/A
(edition) (addenda date) (class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —
(no.)
7. Remarks _____
8. Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft & in.) — Length overall (ft & in.) —
9. When applicable, Certificate Holders' data reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) N96012-94-0181		(26)	
(2) N96012-95-0182		(27)	
(3) N96012-95-0183		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure — psi. Temp. — ° F Hydro. test pressure 6125 PSIG at temp. 70 ° F
(when applicable)

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

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

8065

CERTIFICATE OF DESIGNDesign specifications certified by L. IKE EZEKOYE P.E. State PA Reg. no. 18379-E
(when applicable)Design report* certified by W.D. GREENLAW P.E. State MA Reg. no. 14784
(when applicable)**CERTIFICATE OF COMPLIANCE**We certify that the statements made in this report are correct and that this (these) PLUGS
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1877 Expires Sept. 20, 2013

Tyco Valves & Controls, LP

Date 24-MAR-2011 Signed dba Anderson Greenwood Crosby by J. E. T...
(NPT Certificate Holder) (Authorized Representative)**CERTIFICATE OF INSPECTION**I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
State or Province of MA and employed by HSB-CT
of Hartford-CT have inspected these items described in this Data Report on3-24, 20 11 and state that to the best of my knowledge and belief, the Certificate Holder
has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has
been authorized for stamping on the date shown above.By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied,
concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or
connected with this inspection.Date MAR 24 20 11Signed [Signature] NB 7583 A,B,N,I,NS
(Authorized Inspector) MA-1422

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. 01

Report Number 35951. Owner First Energy Nuclear Operating Company76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O Box 4, Shippingport PA 15077
(ADDRESS)3. Work Performed By Technical Services Engineering
(NAME)P.O Box 4, Shippingport PA 15077
(ADDRESS)Date 05-08-14Sheet 1 of 2 *2/15/14*Unit No. 2Westinghouse PO#47459821

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant5. (a) Applicable Construction Code ASME Section III, 1971 Edition, Summer 1972 Addenda, See N-1 Code Case _____(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001 Edition, 2003 Addenda(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)
Steam Generator	Westinghouse	DMGT-1961	W-16598	2RCS-SG21A	1977	Corrected	Yes

7. Description of Work Installed 52 Inconel 690 plugs in 26 tubes.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure N/A psi Test Temp. N/A °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. 01

Report Number 3595

9. Remarks Primary side work orders: 200543043, 200545324. Secondary side work order 200543044.

Applicable Manufacturer's Data Reports to be attached

Installed 2 new gaskets on primary side manway and 4 secondary side inspection ports.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Gary Alberti/SG Project Manager G. Alberti Date May 5th, 2014
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global of HARTFORD, CT ^{standards} have inspected the components described in this

Owner's Report during the period 11-4-12 to 5-9-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. [Signature]
Inspector's Signature

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

Date 5-9-, 20 14

As Required by the Provisions of the ASME Code Section XI

Report Number 3596

*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. 01

Report Number **3596**

9. Remarks Primary side work orders: 200543057, 200545325. Secondary side work orders 200543060, 200547444.
Applicable Manufacturer's Data Reports to be attached
Installed 2 new gaskets on primary side manways, 2 secondary side manways and 5 secondary side inspection ports.
In-situ pressure tested 1 tube using the EPRI Guidelines as guidance. No leakage was reported at any of the target pressures.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Gary Alberti/SG Project Manager G. Alberti Date May 5th, 2014
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H586 Lubal of HARTFORD, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-9-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zisch
Inspector's Signature

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

Date 5-9-, 20 14

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. 01

Report Number **3597**1. Owner First Energy Nuclear Operating Company76 South Main Street – Akron, OH 44308

(ADDRESS)

Date 05-08-14Sheet 1 of 2 1/31/14Unit No. 22. Plant Beaver Valley Power Station (BVPS)

(NAME)

P.O Box 4, Shippingport PA 15077

(ADDRESS)

Westinghouse PO#47459821

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

3. Work Performed By Technical Services Engineering

(NAME)

P.O Box 4, Shippingport PA 15077

(ADDRESS)

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant5. (a) Applicable Construction Code ASME Section III, 1971 Edition, Summer 1972 Addenda, See N-1 Code Case (f) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001 Edition, 2003 Addenda(g) 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)
Steam Generator	Westinghouse	DMGT-1963	W-16600	2RCS-SG21C	1977	Corrected	Yes

7. Description of Work Installed 30 Inconel 690 plugs in 15 tubes. 2 of these plugs were weld plugs installed on the hot leg side of the steam generator.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure N/A psi Test Temp. N/A °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. 01

Report Number 3597

9. Remarks Primary side work orders: 200543074, 200545326. Secondary side work orders 200543075, 200547445.
Applicable Manufacturer's Data Reports to be attached
Installed 2 new gaskets on primary side manway and 4 secondary side inspection ports.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Gary Albert/SG Project Manager G. Albert Date May 5th, 2014
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by ASB Global Standards of HARTFORD, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-9-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean J. Zinn
Inspector's Signature

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

Date 5-9- . 20 14

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. 01

Report Number 3602

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/19/2014Sheet 1 of 2Unit No. 2Order Nos. 200465406, 200542555, 55115381
Repair/Replacement Organization P.O. No., Job No., etc.Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Class 1)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Relief Valve	Crosby	N56963-00-0007	N/A	2RCS-RV551B	1976	Removed	Yes
Relief Valve	Crosby	N56963-00-0009	N/A	2RCS-RV551B	1976	Installed	Yes
Nut, 1-3/8"	Nova Machine	N/A	N/A	Lot #50419628	2014	Installed	No

7. Description of Work Replaced valve with spare for testing purposes. Replaced inlet flange nuts.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. 01

Report Number 3602

*Record test pressure and temperature

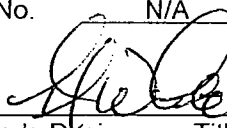
9. Remarks Copy of NV-1 Form attached to previous NIS-2 Data Report No. 846. Previous NIS Data Report No. 3105. NVR-1 Report of Repair attached for work performed to Order 55115381 by NWS Technologies.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 19, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-21-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB 9428 ANIB PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-21-, 20 14

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

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 55115381
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: First Energy Corporation, Beaver Valley Power Station
- 3/4. Owner - name, address and identification of nuclear power plant: Beaver Valley Power Station,
P.O. Box 4, Shippingport, PA 15077
5. a: Repaired pressure relief device: Pressurizer Safety Valve
b: Name of manufacturer: Crosby Valve & Gage Co.
c: Identifying nos.
- | | | | | | |
|-----------------------|----------------------------|----------------------|--------------------------|-----------------------|---------------------------|
| <u>HB-86-BP</u> | <u>N56963-00-0009</u> | <u>n/a</u> | <u>steam</u> | <u>6 M1 6</u> | <u>1976</u> |
| <small>(type)</small> | <small>(mfr's S/N)</small> | <small>(NB#)</small> | <small>(service)</small> | <small>(size)</small> | <small>(yr.built)</small> |
- d: Construction Code: ASME / III / 1 1971 W '72 n/a 1
(name/section/division) (edition) (addenda) (Code Cases(s)) (Code Class)
6. ASME Code Section XI applicable for inservice inspection: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1971 W '72 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 2485 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): As-found was performed. Disassembled,
inspected, VT-3 of valve body and components, VT-1 of bolting, lapped seats, cleaned, buffed, lubricated,
assembled. Certified set-pressure using steam. Jack and Lapped. Certified seat tightness using gaseous
nitrogen. Bellows/gasket integrity tested SAT using gaseous nitrogen
12. Remarks: NWS Traveler #: 12-306. No parts replaced.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2015.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2015.

10/17/12 **NWS Technologies, LLC** *J.C. Gibson* Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, **Ramon Valladares, Jr** holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of **Georgia** and employed by **Hartford Steam Boiler of CT** of Hartford, CT have inspected the repair, modification or replacement described in this report on 10-17-12 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

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

10-17-12 *Ramon Valladares Jr.* **NB #7465, A, N, I GA# 167**
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3649

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/21/2014Sheet 1 of 1Unit No. 2Order #200536240

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Emergency Diesel – Air Starting (Class 3)5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Colt Industries Fairbanks Morse Engine	N/A	54	2EGA-STR1	1977	Corrected	Yes
Bolt, 1/2"	Nova Machine	N/A	N/A	Trace Code D895	2003	Installed	No
Nut, 1/2"	Nova Machine	N/A	N/A	Ht. #B87035	2000	Installed	No

7. Description of Work Cut out and re-welded pipe to elbow, and replaced two support bolts & nuts.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. 01

Report Number 3649

*Record test pressure and temperature

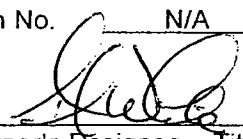
9. Remarks No Data Reports available.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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


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

Signed Thomas White  Nuclear Engineer V Date July 8, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

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

Date 7-11-, 20 14

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 3652

1. Owner FirstEnergy Nuclear ~~Generation, LLC~~ ^{Operating Company}
(NAME) to 4/1/14

Date 06/07/2013

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

Sheet 1 of 2

Unit No. 2

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

P.O. Box 4 Shippingport, PA 15077
(ADDRESS)

WO# 200536488

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

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

P.O. Box 4 Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Service Water (Q3)

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

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	Stone and Webster	N/A	N/A	2-SWS-004-190-3	1987	Corrected	Yes
Valve	Wallworth Company	C59083	586	2SWS-1233	1976	Installed	Yes
Pipe	Energy and Process Corp	N/A	N/A	HT# X22817	2011	Installed	No
Flange	Energy and Process Corp	N/A	N/A	HT# 237366	2012	Installed	No
Bolting	Various	N/A	N/A	Various	Various	Installed	No

7. Description of Work Replace piping spool with new pipe and install a new isolation valve.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 00

Report Number 3652

9. Remarks Previous NIS-2 Report #'s: 356, 521, 3540. Code Data Report Attached. Valve PO#: 2BV-72, Pipe/Flange PO# 47401507 / 45423861, Studs/Nuts PO/HT# 45380624 / 783582 and 45415616 / 8E30.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed J. Sciulli  Nuclear Engineer III Date June 7th, 20 13
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 6-10-13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428ANIB PA2384
National Board, State, Province, and Endorsements

Date 6-10-, 20 13

As Required by the Provisions of the ASME Code Rules

Greensburg, PA 15601

Manufactured by Greensburg, PA 15601 Order No. CD31299-CIT
(Name & Address of Manufacturer)

How to Assess a Website

2. Manufactured for Duquesne Light Co., Shippingport, PA Order No. 2EV-73
(Name and Address)

(Name and Address)

3. Owner Duquesne Light Co., Shippingport, PA

4. Location of Plant Beaver Valley Power Station, Shippingport, Beaver County, PA

3. Pump or Valve Identification 4" 150 lb. WE HF Globe Valve

MSM 5-5275-57-040-44A (30013275) Serial No. C-59093

විකල්ප ප්‍රතිපත්ති පිළිබඳව ප්‍රධාන මතවාදයන් සහ ඒවායේ ප්‍රතිඵලයන් පිළිබඳව විමර්ශනය කිරීම.

(c) Drawing No. SK-1950-14 D Prepared by Walworth Company

(b) National Road No. 586

6. Design Conditions _____ Fat _____ % of Previous Class _____ 150 _____
 (Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971 , Added Date June 30, 1972 , Case No. ~~1662~~ 1672

(1b) For manually operated valves only.

[illegible]

FORM NPV-1 (back)

[illegible]Hydrostatic test 425 psi.

CERTIFICATION OF DESIGN

Design information on file at Walworth Co., Greensburg, PA 15601
Stress analysis report on file at N/A
Design specifications certified by C. O. Richardson, Jr. (1) Prof. Eng. State PA Reg. No. 016297
Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____
(1) Signature not required. List name only.

To certify that the statements made in this report are correct.

Date 6/17 1976 Signed Walworth Company By G. J. M. Hill
(Manufacturer)
Certificate of Authorization No. 950 expires Jan. 6, 1978

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by The Hartford Steam Boiler I & I Co. of Hartford, Connecticut 06102 have inspected the equipment described in this Data Report on 6-12-1976; and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, 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 damage or a loss of any kind arising from or connected with this inspection.

DATE 6-17-1976

E. Sendek Commissions National Board # 7201
(Inspector) Pennsylvania # 1636
(National Board, State, Province and No.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3654

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

Date 05/05/2014

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

Sheet 1 of 1

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Order #200542931

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

3. Work Performed By BVPS Construction Services
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, — Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	Schneider Power	2-SR-30-07-SWS	N/A	2-SWS-004-190-3	1986	Corrected	Yes
Support	Schneider Power	N/A	N/A	2SWS-PSA230S	1986	Corrected	No
Support	Schneider Power	N/A	N/A	2SWS-PSA745Y	1986	Corrected	No
Support	Schneider Power	N/A	N/A	2SWS-PSA747Y	1986	Corrected	No
Support	Schneider Power	N/A	N/A	2SWS-PSA748Y	1986	Corrected	No
Pipe Subassembly	Power Piping	N-1141-3612	N/A	SWS-190-3A	1981	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-3613	N/A	SWS-190-4A	1979	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-3614	N/A	SWS-190-5	1979	Removed	Yes

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. 01

Report Number 3654

Pipe Subassembly	Power Piping	2-SWS-101935-1	N/A	SWS-190-6A	1980	Removed	Yes
Pipe Subassembly	Power Piping	2-SWS-101935-1	N/A	SWS-190-6B	1980	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-5293	N/A	SWS-190-7A1	1989	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-5293	N/A	SWS-190-7A2	1980	Removed	Yes
Pipe, 4"	Energy & Process	N/A	N/A	Ht. #X22817	2012	Installed	No
90° Elbow, 4"	Energy & Process	N/A	N/A	Y195B	2012	Installed	No
45° Elbow, 4"	Energy & Process	N/A	N/A	Ht. #468018	2010	Installed	No
Flange, 4"	Energy & Process	N/A	N/A	Ht. # HXU	2013	Installed	No
Support Strap	Nova Machine	N/A	N/A	Ht. #I043944	2013	Installed	No
Pipe, 3"	Energy & Process	N/A	N/A	Ht. #HA0533	2011	Installed	No
Pipe, 4"	Energy & Process	N/A	N/A	Ht. #X22817	2013	Installed	No
90° Elbow, 4"	Energy & Process	N/A	N/A	X688	2013	Installed	No

7. Description of Work Replaced spool pieces SWS-190-3A, SWS-190-4A, SWS-190-5, SWS-190-6A, SWS-190-6B, SWS-190-7A1, SWS-190-7A2. Removed and reinstalled supports 2SWS-PSA745Y, 2SWS-PSA747Y, 2SWS-PSA-748Y, and 2SWS-PSA230Y.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3654

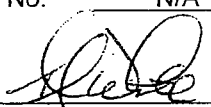
9. Remarks Code Data Reports for removed spool pieces with N-5 Data Report for 2-SR-30-07-SWS. No Data
Applicable Manufacturer's Data Reports to be attached
Reports available for replacement pipe, fittings, studs & nuts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

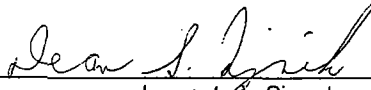
Certificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date May 07, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-7-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

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

Date 5-7-, 20 14

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. 01

Report Number 36551. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/23/2014Sheet 1 of 1Unit No. 2Order #200535478

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S72 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	Schneider Power	2-SR-30-07-SWS	N/A	2-SWS-004-191-3	1986	Corrected	Yes
Support	Schneider Power	N/A	N/A	2SWS-PSA209S	1986	Corrected	No
Support	Schneider Power	N/A	N/A	2SWS-PSR724Y	1986	Corrected	No
Pipe Subassembly	Power Piping	N-1141-3617	N/A	SWS-191-3A	1979	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-3618	N/A	SWS-191-4	1979	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-3619	N/A	SWS-191-5A	1979	Removed	Yes
Pipe Subassembly	Power Piping	N-1141-3620	N/A	SWS-191-6	1980	Removed	Yes

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. 01

Report Number 3655

Pipe Subassembly	Power Piping	N-1411-5296	N/A	SWS-191-7A	1980	Removed	Yes
Pipe, 4"	Energy & Process	N/A	N/A	Ht. #X22817	2013	Installed	No
90° Elbow, 4"	Energy & Process	N/A	N/A	Ht. #479744	2013	Installed	No
90° Elbow, 4"	Energy & Process	N/A	N/A	Heat Code X688	2013	Installed	No
45° Elbow, 4"	Energy & Process	N/A	N/A	Ht. #468018	2010	Installed	No
Flange, 4"	Energy & Process	N/A	N/A	Heat Code HXU	2012	Installed	No
Stud, 5/8"	Nova Machine	N/A	N/A	Trace Code 8M79	2013	Installed	No
Nut, 5/8"	Nova Machine	N/A	N/A	Trace Code 8E30	2013	Installed	No
Pipe, 3"	Energy & Process	N/A	N/A	Ht. #HA0533	2011	Installed	No
Tube Steel, 3"x3"x1/4"	Energy & Process	N/A	N/A	Ht. #363904	2006	Installed	No
Plate, 3/4"	Energy & Process	N/A	N/A	Ht. #85203	2013	Installed	No

7. Description of Work Replaced spool pieces SWS-191-3A, SWS-191-4, SWS-191-5A, SWS-191-6, SWS-191-7A
Removed and reinstalled supports 2SWS-PSR724Y, 2SWS-PSA209S.

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

9. Remarks Code Data Reports for removed spool pieces and supports with N-5 Data Report for 2-SR-30-07-SWS.
Applicable Manufacturer's Data Reports to be attached
No other Data Reports available. Previous NIS-2 Data Report Nos. 3537, 3536, 3386, 3322, 2088, and 1327.

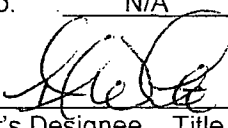
FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3655**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Thomas White  Nuclear Engineer V Date July 17, 20 14
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB9428 ANEB PA2384
National Board, State, Province, and EndorsementsDate 7-17-, 20 14

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. 01

Report Number 3656

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

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

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Valve Team
(NAME)

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Date 05/22/2014

Sheet 1 of 2

Unit No. 2

Order #200545337

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Main Steam (Class 2)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	Target Rock	2	N/A	2MSS-SOV105B	1984	Corrected	Yes
Main Disc	Target Rock	417	N/A	N/A	2013	Installed	Yes
Main Disc	Target Rock	379	N/A	N/A	1996	Removed	Yes

7. Description of Work Replaced main disc and seal welded body to bonnet.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

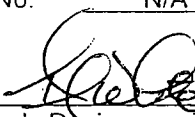
Report Number 3656

9. Remarks Code Data Report attached. Copy of NPV-1 Data Report attached to previous NIS-2 No. 893.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Thomas White  Nuclear Engineer V Date May 22, 20 14
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB9428 A NIB PA2384
National Board, State, Province, and EndorsementsDate 6-2-, 20 14

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

Corrected 05/08/13

1 of 2

1. Manufactured and certified by Target Rock: 1908E Broadhollow Rd.; E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)
2. Manufactured for FirstEnergy Corp.; Akron, OH
(name and address of Purchaser)
3. Location of Installation Beaver Valley Power Station; Rte. 168; Shippingport, PA
(name and address)
4. Type 300278, Rev.F SA564 630 140 ksi N/A 2013
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1980 Summer 1981 2 None
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Main Disc Project No. (13S 007)
Spare parts for valve Model Nos. 83C-004 & 83C-027 NPT stamp not applied parts marked with S/N
8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>417</u>	<u>N/A</u>	(26)	
(2) <u>---</u>		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. Test pressure 260 psig at ambient temp. °F
(when applicable)

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in Items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form. This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRINT (7/91)

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

Certificate Holder's Serial Nos. p/n 300278-1 s/n: 417

CERTIFICATION OF DESIGN

Design specifications certified by J.F. Harkins P.E. State PA Reg. No. 30388-E
(when applicable)

Design report* certified by Not Applicable P.E. State - Reg. No. -
(when applicable)

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1948 Expires 12/12/2013

Date 5/8/13 Name Target Rock Signed John D. Bonis
(NPT Certificate Holder) John D. Bonis, QA Manager
(authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NEW YORK and employed by One CIS Insurance Co. of Lynn, MA have inspected the pump, or valve, described in this Data Report on 5/08/2013 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 5/8/13 Signed [Signature] Commissions NB9376AN NY 5102
(Authorized Inspector) Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 2657

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

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

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Valve Team
(NAME)

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Date 05/22/2014

Sheet 1 of 2

Unit No. 2

Order #200545338

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Main Steam (Class 2)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	Target Rock	5	N/A	2MSS-SOV105E	1984	Corrected	Yes
Main Disc	Target Rock	419	N/A	N/A	2013	Installed	Yes
Main Disc	Target Rock	374	N/A	N/A	1996	Removed	Yes

7. Description of Work Replaced main disc and seal welded body to bonnet.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3657

9. Remarks Code Data Report attached. Copy of NPV-1 Data Report attached to previous NIS-2 No. 894.

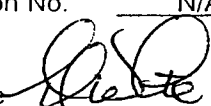
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 22, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-22-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NP9428ANIS PA2384
National Board, State, Province, and Endorsements

Date 5-22-, 20 14

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

Corrected 05/08/13

1 of 2

1. Manufactured and certified by Target Rock; 1966E Broadhollow Rd.; E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)
2. Manufactured for FirstEnergy Corp.; Akron, OH
(name and address of Purchaser)
3. Location of installation Beaver Valley Power Station; Rte. 168; Shippingport, PA
(name and address)
4. Type 300278, Rev.F SA564 630 140 ksi N/A 2013
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1980 Summer 1981 2 None
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Main Disc Project No. (13S 075)
Spare parts for valve Model Nos. 83C-004 & 83C-027 NPT stamp not applied, parts marked with S/N
8. Nom. Thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>419</u>	<u>N/A</u>	(26)	
(2) <u>---</u>		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F Hydro. Test pressure 275 psig at ambient temp. °F
(when applicable)

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form. This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRINT (7/91)

Certificate Holder's Serial Nos. p/n 300278-1 s/n: 419

CERTIFICATION OF DESIGN

Design specifications certified by J.F. Harkins P.E. State PA Reg. No. 30388-E
(when applicable)

Design report* certified by Not Applicable P.E. State - Reg. No. -
(when applicable)

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1948 Expires 12/12/2013

Date 11/20/13 Name Target Rock Signed John DeBonis
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NY and employed by One CIS Insurance Co. of Lynn, MA have inspected the pump, or valve, described in this Data Report on 1A-28-13 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 11-21-13 Signed DE Tillery Commissions NB 8845 ANIBNS NY2977
(Authorized Inspector) Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3662

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

Date 05/28/2014

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

Sheet 1 of 2

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Order #200564460

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

3. Work Performed By BVPS Valve Team
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Chemical and Volume Control (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, S"73 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Gate Valve	Velan	1231	N/A	2CHS-MOV201	1979	Corrected	Yes
Disc	Velan Valve	4874	N/A	Ht. #4764	2002	Installed	Yes

7. Description of Work Replaced disc.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3662

9. Remarks Code Data Report attached. Copy of valve Code Data Report with N-5 2-SR-9-02-DGS.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date June 5, 2014

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zirk
Inspector's Signature

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

Date 6-6-, 20 14

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

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

S-022095
Pg. 1 of 2

1. Manufactured and certified by VELAN INC. 550 McARTHUR STREET; Montréal QUEBEC H4T 1X8 CANADA
(name and address of NPT Certificate Holder)

2. Manufactured for FIRST ENERGY CORP. P.O. BOX 3611; AKRON, OHIO 44309-3611 USA
(name and address of Purchaser)

3. Location of installation BEAVER VALLEY POWER STATION SHIPPINGPORT PA 15077 USA
(name and address)

4. Type: E73-026 REV.D AMS 5387 / C N/A N/A 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1971 SUMMER 1973 1 N/A
(edition) (addenda date) (class) (Code Case no.)

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

7. Remarks: DISC HEAT No.: 4764 (RT IDENT. No. Z2241)

SPARE PART FOR: 2"-1500# BB M/O GLOBE VALVE (FIGURE: W08-3074B-13WS)

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) DISC SN: #4874	N/A
(2) _____	
(3) _____	
(4) _____	
(5) _____	
(6) _____	
(7) _____	
(8) _____	
(9) _____	
(10) _____	
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(19) _____	
(20) _____	
(21) _____	
(22) _____	
(23) _____	
(24) _____	
(25) _____	

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

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

OPERATING COND.: 2500 MAX. PSI AT 650 °F

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

Certificate Holder's Serial No. **DISC #4874** through —

CERTIFICATION OF DESIGN

Design specifications certified by NOT REQUIRED P.E. State N/A Reg. no. N/A
(when applicable)

Design report* certified by NOT APPLICABLE P.E. State N/A Reg. no. N/A
(when applicable)

S-022095

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) 2"-1500#BB GLOBE VALVE DISC
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N2798-2 (NPT) Expires 20 APRIL 2004

Date OCT. 8/02 Name VELAN INC. Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of QUEBEC
and employed by RÉGIE DU BATIMENT DU QUEBEC
of QUEBEC have inspected these items described in this Data Report on October 10, 2002, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date Oct. 10/2002 Signed [Signature] Commissions J.P. FACHINETTI QC#13813
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

Note: due to material strength, "NPT" stamp was not applied on this spare part.

[Signature] Oct. 10, 2002
J.P. FACHINETTI QC#13813
RÉGIE DU BÂTIMENT DU QUÉBEC

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. 01

Report Number 36741. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/06/2014Sheet 1 of 1Unit No. 2Order #200575533

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S72 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Schneider Power	2-SR-30-05-SWS	N/A	2-SWS-004-193-3	1986	Corrected	Yes
Piping Subassembly	Power Piping	N-1141-5257	N/A	SWS-193-9	1980	Corrected	Yes
Pipe, 4"	Energy & Process	N/A	N/A	Ht. #X22817	2012	Installed	No

7. Description of Work Replaced section of pipe onspool piece SWS-193-9, on pipeline 2-SWS-004-193-3.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01


Report Number 36749. Remarks Code Data Report for Piping Subassembly N-1141-5257 with N-5 package for 2-SR-30-05-SWS.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

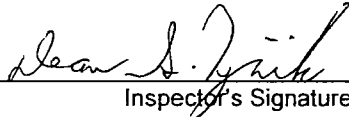
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date May 07, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-7-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

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

Date 5-7-, 20 14

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. 01

Report Number 36961. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/23/2014Sheet 1 of 2Unit No. 2Order #200451401

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 1)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	BW/IP	95EP0224	N/A	2CHS-1	1995	Removed	Yes
Valve	Conval Inc.	085111-1.02	N/A	2CHS-1	2014	Installed	Yes
Coupling, 2"	Energy & Process	N/A	N/A	Heat Code 420689	2012	Installed	No
Pipe, 2"	Energy & Process	N/A	N/A	Ht. #514566	2012	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3696

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1328.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 23, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 JB9428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 6-6-, 20 14

Pg. 1 of 2

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

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

Certificate Holder's Serial No. 085111-1.02

8. Design Conditions 2500 PSI 650 F or valve pressure class N/A
(pressure) (temperature)

9. Cold working pressure 4080

10. Hydrostatic test 6125 PSI , Disk differential test pressure 4500 PSI

11. Remarks S/N : 085111-1.02 =Yoke Material: SA182 F316, Serial Number: 09-341-22

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA. Reg. no. 036614-E
Design Report certified by Jeremiah O'Callaghan P.E. State CT. Reg. no. 24824

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-3199 Expires July 21, 2015
Date 4/11/14 Name Conval, Inc. Signed [Signature]

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by OneCIS Insurance Company
of Lynn, Ma. have inspected the pump, or valve, described in this Data Report on 4/11/2014, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4/11/2014 Signed [Signature] Commissions NB11916 ABNI CT1424

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. 01

Report Number 3701

1. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 05/12/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 2Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200514280

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

3. Work Performed By BVPS Construction Services
(NAME)Type Code Symbol Stamp N/AP.O. Box 4, Shippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Henry Pratt	D-0014-6-1	N/A	2SWS-MOV102B	1978	Removed	Yes
Valve	Weir Valves	2-55533-A	N/A	2SWS-MOV102B	2014	Installed	Yes
Stud, 1-1/4"	Nova Machine	N/A	N/A	Trace Code 9N44	2014	Installed	No
Nut, 1-1/4"	Nova Machine	N/A	N/A	Ht. #9P56	2014	Installed	No

7. Description of Work Replaced valve with spare, installed new flange studs & nuts.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. 01

Report Number 3701

*Record test pressure and temperature

9. Remarks Code Data Report attached.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date May 12, 20 14

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-13-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Smith
Inspector's Signature

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

Date 5-13-, 20 14

Pg. 1 of 2

Certificate Holder's Serial No. 2-55533-A8. Design conditions 275 psi 100 °F or valve pressure class 150
(pressure) (temperature)9. Cold working pressure 275 psi at 100°F10. Hydrostatic test 425 psi. Disk differential test pressure 165 psi11. Remarks: Hex Cap Screw SA 193 Gr B8M HT# : E110435 TR# 271C

CERTIFICATION OF DESIGN

Design specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E
(when applicable)Design report certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2606 Expires 6-13-16Date 1/14/14Name WEIR VALVES & CONTROLS USA INC.

(N Certificate Holder)

Signed [Signature]

(authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ME and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 12-27-2013 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 equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 1-14-2014Signed [Signature]

(Authorized Inspector)

Commission NB12715ABW ME 800

(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 37041. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/07/2014Sheet 1 of 1Unit No. 2Order #200551984

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipeline	Schneider Power	2-SR-30-06-SWS	N/A	2-SWS-012-188-3	1986	Corrected	Yes
Pipe Subassembly	Power Piping	2-SWS-101908-3	N/A	SWS-188-7A	1977	Corrected	Yes
Pipe, 12"	Energy & Process	N/A	N/A	Ht. #U02117-R072AA	2014	Installed	No

7. Description of Work Replaced section of pipe on spool piece SWS-188-7A on pipeline number 2-SWS-012-188-3.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3704

9. Remarks Code Data Reports for spool piece SWS-188-7A with N-5 Data Report for 2-SR-30-06-SWS. No Data
Applicable Manufacturer's Data Reports to be attached
Reports available for pipe.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date May 08, 20 14

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-8-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Pyzik
Inspector's Signature

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

Date 5-8-, 20 14

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. 01

Report Number 37121. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/17/2014Sheet 1 of 2Unit No. 2Order #200586378

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case —(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Fisher Controls	5697041	2110	2CHS-FCV113A	1976	Corrected	Yes
Plug	Fisher Controls	BD6207-1	N/A	Ht. #732935	2007	Installed	Yes

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3712

9. Remarks Code Data Report attached. Copy of valve data report attached to N-5 2-SR-7-07-CHS.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date May 17, 20 14

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-19-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Irish
Inspector's Signature

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

Date 5-19-, 20 14

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

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

Not to exceed One Day's Production

Pg. 1 of 1

004-A20H123671

1. Manufactured and certified by FISHER CONTROLS INT'L LLC, 205 SOUTH CENTER STREET, MARSHALLTOWN, IA. 50158
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corp, PO Box 6100, Johnstown, PA. 15907
(name and address of purchaser)
3. Location of installation Beaver Valley Nuclear Plant, Route 168, Shippingport, PA. 15077
(name and address)
4. Type IU2161 Rev D SA479 S31600 75 KSI N/A 2007
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Summer 1972 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Design: ASME BPVC Sec III, 1971 Edition, Summer 1972 Addenda, Class 3
Other: ASME BPVC Sec III, 1989 Edition, No Addenda, Class 3
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. 1D (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number	Heat Number
(1)	BD6207-1	732935
(2)		
(3)		
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(25)		

	Part or Appurtenance Serial Number	Heat Number
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
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(49)		
(50)		

10. Design Pressure 200 psi. Temp. 200 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

FORM N-2 (back)

Mfr. Serial No. BD6207-1

CERTIFICATION OF DESIGN

Design specifications certified by Henry P. Leonard P.E. State PA Reg. no. 23938-E
 (when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. 1930 Expires 10-27-2007

Date 5-30-07 Name FISHER CONTROLS INT'L LLC Signed Linda Ward
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or Province of Iowa
 and employed by Hartford Steam Boiler of CT

of Hartford, CT have inspected these items described in this Data Report on 5-30-07 and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has
 been authorized for stamping on the date shown above.

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

Date 5-30-07 Signed Ken Cook Commissions 822 IA.
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3713

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

Date 05/16/2014

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

Sheet 1 of 1

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Order #200546936
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS Construction Services
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Auxiliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, --- Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Lisega	61211/08	N/A	2FWE-PSSP009	1992	Removed	No
Snubber	Lisega	30900372/024	N/A	2FWE-PSSP009	2010	Installed	No

7. Description of Work Replaced snubber with new.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3713

9. Remarks No Code Data Reports available. Snubber manufactured to ANSI B31.1 1967E-S'73A.

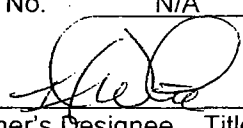
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 16, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-16-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NB9428ANFB P 42384
National Board, State, Province, and Endorsements

Date 5-16-, 20 14

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. 01

Report Number 37141. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 06/03/2014Sheet 1 of 1Unit No. 2Order #200546968

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul-Munroe	1660	N/A	2RSS-PSSP124A	1986	Removed	No
Snubber	Lisega	31300783/010	N/A	2RSS-PSSP124A	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 37149. Remarks No Code Data Report available. Snubber supplied to ANSI B31.1 1967E-S'73A.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

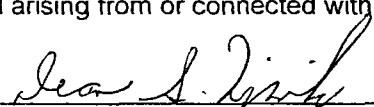
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date June 03, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 ASIB PA 2384
National Board, State, Province, and Endorsements

Date 6-6-, 20 14

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. 01

Report Number 37151. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 05/30/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200546953

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

3. Work Performed By BVPS Construction Services
(NAME)Type Code Symbol Stamp N/AP.O. Box 4, Shippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W/72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul-Munroe	1661	N/A	2RSS-PSSP124B	1986	Removed	No
Snubber	Lisega	31300783/009	N/A	2RSS-PSSP124B	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3715

9. Remarks No Code Data Reports available. Snubber supplied to ANSI B31.1 1967E-S'73A.

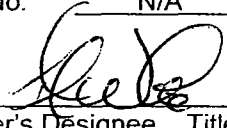
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 30, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB 9428 A-1-B PA 2384
National Board, State, Province, and Endorsements

Date 6-6-, 20 14

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. 01

Report Number 3716

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 06/03/2014Sheet 1 of 1Unit No. 2Order #200546969

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul-Munroe	1658	N/A	2RSS-PSSP129A	1986	Removed	No
Snubber	Lisega	31300783/004	N/A	2RSS-PSSP129A	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3716

9. Remarks No Code Data Report available. Snubber supplied to ANSI B31.1 1967E-S'73A.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date June 03, 20 14

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Smith
Inspector's Signature

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

Date 6-6-, 20 14

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. 01

Report Number 37171. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/30/2014Sheet 1 of 1Unit No. 2Order #200546954

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul-Munroe	1659	N/A	2RSS-PSSP129B	1986	Removed	No
Snubber	Lisega	31300783/003	N/A	2RSS-PSSP129B	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3717

9. Remarks No Code Data Reports available. Snubber supplied to ANSI B31.1 1967E-S'73A.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date May 30, 20 14

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Glick
Inspector's Signature

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

Date 6-2-, 20 14

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. 01

Report Number 37181. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 05/30/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 1Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200546960

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

3. Work Performed By BVPS Construction Services
(NAME)Type Code Symbol Stamp N/AP.O. Box 4, Shippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Main Steam (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Lisega	61256/19	N/A	2MSS-PSSP002A	1986	Removed	No
Snubber	Lisega	31301076/054	N/A	2MSS-PSSP002A	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3718

9. Remarks No Code Data Reports available. Snubber supplied to ANSI B31.1 1967E-S'73A. Previous NIS-2 Data
Applicable Manufacturer's Data Reports to be attached
Report No. 321.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date May 30, 20 14

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean A. Smith
Inspector's Signature

Commissions NB9428 ANS B PA2384
National Board, State, Province, and Endorsements

Date 6-6-, 20 14

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. 01

Report Number 3719

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/30/2014Sheet 1 of 1Unit No. 2Order #200546961

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Main Steam (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Lisega	61265/06	N/A	2MSS-PSSP003A	1986	Removed	No
Snubber	Lisega	31300606/007	N/A	2MSS-PSSP003A	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3719

9. Remarks No Code Data Reports available. Snubber supplied to ANSI B31.1 1967E-S'73A. Previous NIS-2 Data
Report No. 336.
Applicable Manufacturer's Data Reports to be attached


CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date May 30, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428 A-IB PA2384
National Board, State, Province, and Endorsements

Date 6-2-, 20 14

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. 01

Report Number 37201. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 06/30/2014Sheet 1 of 1Unit No. 2Order #200546945

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System REACTOR COOLANT
Recirculation Spray (Class 2)
SEP 4/31/145. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul-Munroe	61211/16	N/A	2RCS-PSSP026	1986	Removed	No
Snubber	Lisega	3110330/015	N/A	2RCS-PSSP026	2014	Installed	No

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3720

9. Remarks No Code Data Reports available. Snubber supplied to ANSI B31.1 1967E-S'73A. Previous NIS-2 Data
Applicable Manufacturer's Data Reports to be attached
Report No. 330.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White [Signature] Nuclear Engineer V Date June 30, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NB9428ANIB PA2384
National Board, State, Province, and Endorsements

Date 7-1-, 20 14

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. 01

Report Number 3722

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

Date 06/05/2014

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

Sheet 1 of 1

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Order #200584746

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

3. Work Performed By BVPS Construction Services
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Auxiliary Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Power Piping	N-1141-4142	N/A	FWE-8-3B	1981	Corrected	Yes
Pipe, 3"	Energy & Process	N/A	N/A	Ht. #FA1076	2013	Installed	No
Flange, 3"	Energy & Process	N/A	N/A	Trace Code WGD	2014	Installed	No
Blind Flange, 3"	Energy & Process	N/A	N/A	Trace Code WPW	2014	Installed	No
Elbow, 3"	Energy & Process	N/A	N/A	Ht. #H704H-1	2002	Installed	No
Tee, 6"x6"x3"	Energy & Process	N/A	N/A	Ht. #Y359	2014	Installed	No
Stud, 3/4"	Trust Manuf.	N/A	N/A	Trace Code SS97	2013	Installed	No
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code OC17	2013	Installed	No

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3722

7. Description of Work Installed new tee, pipe, elbow, flanges, studs & nuts in pipeline 2-FWE-006-008-3 and
2-FWE-003-219-3.

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

9. Remarks No Code Data Reports available. Data Report for spool piece FWE-8-3B filed with N-5 2-SR-24-04-
FWE.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White [Signature] Nuclear Engineer V Date June 6, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature]
Inspector's Signature

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

Date 6-9-, 20 14

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. 01

Report Number 3723

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

Date 07/08/2014

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

Sheet 1 of 1

Unit No. 2

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Order #200584747

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

3. Work Performed By BVPS Construction Services
(NAME)

Type Code Symbol Stamp N/A

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Authorization No. N/A

Expiration Date N/A

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Power Piping	N-1141-2577	N/A	SWS-142-2A	1978	Corrected	Yes
Piping	FirstEnergy	N/A	N/A	2-SWS-008-779-3	2014	Installed	No
Flange, 8"	Energy & Process	N/A	N/A	Heat Code TJP	2014	Installed	No
Blind Flange, 8"	Energy & Process	N/A	N/A	Heat Code SEV	2014	Installed	No
Stud, 3/4"	Trust Manuf.	N/A	N/A	Trace Code SS97	2013	Installed	No
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code 0C17	2013	Installed	No
Weldolet, 8"	Energy & Process	N/A	N/A	Ht. #6498ANF	2014	Installed	No

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3723

7. Description of Work Added new branch connection line 2-SWS-008-779-3 to spool piece SWS-142-2A on existing pipeline 2-SWS-030-142-3.

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

*Record test pressure and temperature

9. Remarks Copy of Data Report for spool piece SWS-142-2A with N-5 2-SR-30-04-SWS.

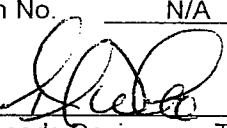
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date July 8, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

 Commissions NB9428 ANIB PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-11-, 20 14

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. 01

Report Number 3724

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)Date 05/18/2014Sheet 1 of 1Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200543718

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

3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Reactor Containment (Class MC)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Metallic Liner	Pittsburgh Des Moines Corp.	N/A	N/A	2-RCBX	1986	Corrected	No

7. Description of Work Attached two electrical support plates to the containment liner.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3724

9. Remarks No Code Data Report available. Original construction of the liner was to Specification 2BVS-65 and
Applicable Manufacturer's Data Reports to be attached
used ASME Section III Class MC, Article NE-4000, 1971 Edition-W'72A as a guide. Electrical support plates supplied
by Energy & Process Corp., S/N S933089, Ht. #811D00290, Year 2014.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Nuclear Engineer V Date July 14, 20 14

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Lynch
Inspector's Signature

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

Date 7-15-, 20 14

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. 01

Report Number 37251. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/14/2014Sheet 1 of 1Unit No. 2Order #200594179

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 2)5. (a) Applicable Construction Code Section III 1974 Edition, — Addenda, — Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Vertical Heat Exchanger	Joseph Oat Corp.	2268-4	950	2CHS-E22	1976	Corrected	Yes
Stud, 1"	Nova Machine	N/A	N/A	Trace Code 9T05	2014	Installed	No
Stud, 1"	Nova Machine	N/A	N/A	Trace Code 1J71	2008	Installed	No
Stud, 1"	Nova Machine	N/A	N/A	Trace Code 1H69	2008	Installed	No
Nut, 1"	Nova Machine	N/A	N/A	Ht. #421372	2014	Installed	No
Stud, 3/4"	Trust Manufacturing	N/A	N/A	Trace Code SS97	2013	Installed	No
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code 7Y27	2012	Installed	No

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

As Required by the Provisions of the ASME Code Section XI

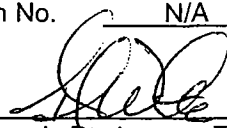
NOP-CC-5703-02 Rev. 01

Report Number 37257. Description of Work Replaced 1" studs & nuts on heat exchanger shell, and 3/4" studs & nuts on piping flange.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

9. Remarks Copy of Code Data Report for heat exchanger with previous NIS-2 Data Report #1143. No Code Data
Applicable Manufacturer's Data Reports to be attached
Reports available for studs and nuts.**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Thomas White  Nuclear Engineer V Date May 23, 20 14
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Inspector's SignatureCommissions NB9428 ANIB PA2384
National Board, State, Province, and EndorsementsDate 6-2-, 20 14

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. 01

Report Number 3727

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

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

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Construction Services
(NAME)

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Date 07/11/2014

Sheet 1 of 1

Unit No. 2

Order #200596789

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, — Code Case

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Schneider Power	2-SR-30-05-SWS	N/A	2-SWS-004-193-3	1986	Corrected	Yes
Ball Valve	Contromatics	86330-4-1	N/A	2SWS-718	1980	Corrected	Yes
Support	Schneider Power	N/A	N/A	2SWS-PSA288Y	1986	Corrected	No
Support	Schneider Power	N/A	N/A	2SWS-PSR338Y	1986	Corrected	No
Piping Subassembly	Power Piping	N-1141-5261	N/A	SWS-193-2C	1981	Removed	Yes
Piping Subassembly	Power Piping	N-1141-5261	N/A	SWS-193-2E	1981	Removed	Yes
Piping Subassembly	Power Piping	N-1141-5262	N/A	SWS-193-3A2	1980	Removed	Yes

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. 01

Report Number 3727

Piping Subassembly	Power Piping	N-1141-5262	N/A	SWS-193-3B	1980	Removed	Yes
Piping Subassembly	Power Piping	2-SWS-101930-4	N/A	SWS-193-4A	1980	Removed	Yes
Piping Subassembly	Power Piping	2-SWS-10930-4	N/A	SWS-193-4C	1980	Removed	Yes
Pipe, 4"	Energy & Process	N/A	N/A	Ht. #X22817	2012	Installed	No
Elbow, 4"	Energy & Process	N/A	N/A	Ht. #477293	2013	Installed	No
Stud, 3/4"	Nova Machine	N/A	N/A	Trace Code 8D44	2013	Installed	No
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code 7Y27	2012	Installed	No
Nut, 3/4"	Nova Machine	N/A	N/A	Trace Code 0C17	2013	Installed	No

7. Description of Work Replaced piping on spool pieces SWS-193-2C, SWS-193-2E, SWS-193-3B, SWS-193-3A2, SWS-193-4A, and SWS-193-4C on pipeline 2-SWS-004-193-3. Repaired valve 2SWS-718 end piece. Replaced flange studs and nuts. Reinstalled integral attachments on supports 2SWS-PSA-288Y and 2SWS-PSR338Y.

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

*Record test pressure and temperature

9. Remarks Code Data Report for valve 2SWS-718, spool pieces replaced and supports with N-5 package for 2-SR-30-05-SWS. No other Data Reports available. Previous NIS-2 Data Report Nos. 356 and 3674.

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. 01

Report Number 3727

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

Thomas White
Nuclear Engineer V Date July 17, 20 14

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Dean S. Smith
Inspector's Signature

Commissions 189428 ASIB PA2384
National Board, State, Province, and Endorsements

Date 7-17-, 20 14

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. 01

Report Number 37281. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 06/05/2014Sheet 1 of 1Unit No. 2Order #200539504

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case --(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Power Piping	N-1141-3961	N/A	SWS-158-3A1	1978	Corrected	Yes

7. Description of Work Cut and re-welded piping for access to cleaning pipe on line number 2-SWS-024-158-3.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3728

9. Remarks Copy of Data Report for spool piece SWS-158-3A1 with N-5 2-SR-30-10-A-SWS-3.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White [Signature] Nuclear Engineer V Date June 6, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature]
Inspector's Signature

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

Date 6-6-, 20 14

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. 01

Report Number 37291. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 06/05/2014Sheet 1 of 1Unit No. 2Order #200539506

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case --(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Power Piping	N-1141-3952	N/A	SWS-157-4	1978	Corrected	Yes

7. Description of Work Cut and re-welded piping for access to cleaning pipe on line number 2-SWS-024-157-3.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3729

9. Remarks Copy of Data Report for spool piece SWS-157-4 with N-5 2-SR-30-10-A-SWS-3.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

[Signature]
Nuclear Engineer V Date June 6, 20 14

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date 6-6-, 20 14

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. 01

Report Number 3730

1. Owner FirstEnergy Nuclear Operating Company
(NAME)

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

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

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

3. Work Performed By BVPS Maintenance
(NAME)

P.O. Box 4, Shippingport, PA 15077
(ADDRESS)

Date 05/17/2014

Sheet 1 of 1

Unit No. 2

Order #200319040

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

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Safety Injection (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, Code Case ---

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

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Kerotest	ADF8-2	5659	2SIS-125	1975	Corrected	Yes

7. Description of Work Seal welded cover to body.

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 37309. Remarks Copy of valve Code Data Report attached to N-5 package 2-SR-11-03-SIS.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Thomas White
Owner or Owner's Designee, TitleNuclear Engineer V Date May 17, 20 14**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-19-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Zink
Inspector's SignatureCommissions NB9428 ANIB PA 2384
National Board, State, Province, and EndorsementsDate 5-19-, 20 14

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. 01

Report Number 37311. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 05/16/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 3Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order Nos. 200600757, 200600532, 55118921
Repair/Replacement Organization P.O. No., Job No., etc.3. Work Performed By Hydroaire Services
(NAME)Type Code Symbol Stamp NR834 W. Madison – Chicago, IL 60607
(ADDRESS)Authorization No. NR 92Expiration Date May 15, 20154. Identification of System Safety Injection (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, S'73 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pump	Goulds	N235B035	515	2SIS-P21B	1979	Corrected	Yes
Gland	Enertech	16957 & 16958	N/A	Ht. #LNT	2006	Installed	Yes
Stud, 1"	Nova Machine	N/A	N/A	Trace Code 9V32	2014	Installed	No
Stud, 1"	Nova Machine	N/A	N/A	Trace Code 9T05	2014	Installed	No
Nut, 1"	Nova Machine	N/A	N/A	Trace Code 9V34	2014	Installed	No
Stud, 7/8"	Nova Machine	N/A	N/A	Trace Code 9W34	2014	Installed	No
Nut, 7/8"	Nova Machine	N/A	N/A	Trace Code 9W15	2014	Installed	No

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 37317. Description of Work Hydroaire the pump and installed new Gland plates and casing studs & nuts. BVPSMaintenance installed the rebuilt pump and replaced piping flange studs & nuts.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

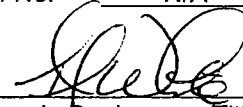
*Record test pressure and temperature

9. Remarks Code Data Reports attached. Copy of Pump Code Data Report attached to previous NIS-2 No. 2096.

Applicable Manufacturer's Data Reports to be attached

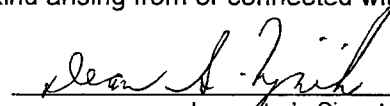
CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Thomas White  Nuclear Engineer V Date May 16, 20 14
Owner or Owner's Designee, Title**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-21-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's SignatureCommissions NB9428 ANIB PA2384
National Board, State, Province, and EndorsementsDate 5-21-, 20 14

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

As Required by the Provisions of the ASME Code, Section III, Division 1
Not To Exceed One Day's Production

Pg 1 of 2

1. Manufactured and certified by Enertech, A Div. of Curtiss-Wright Flow Control Corp. Commercial Power & Services; 2950 Birch St.; Brea, CA 92821
(name and address of certificate holder)
2. Manufactured for First Energy Corp.; P.O. Box 3611; Akron, OH 44309-3611
(name and address of purchaser)
3. Location of installation Beaver Valley Main Warehouse, Beaver Valley Nuclear Power Plant, Route 168, Shippingport, PA 15077
(name and address)
4. Type B10596 SA-351 Gr. CF8M 70,000 PSI N/A 2006
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Summer 1973 2 none
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)
7. Remarks: Qty. 4 Gland, Mechanical Seal, P/N: 0B10596H101, ENERTECH Project No.: 840066

Due to size & configuration, gland is identified with material lot/serial number (16955, 16956, 16957, 16958),

heat number (LNS for 16955, 16956 & LNT for 16957, 16958).

8. Nom. thickness (in.) 0.505 Min. design thickness (in.) 0.501 Dia. ID (ft. & in.) 3.133 in. Length overall (ft. & in.) 2 1/8 in.
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 16955	N/A	(26)	
(2) 16956	N/A	(27)	
(3) 16957	N/A	(28)	
(4) 16958	N/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 240 psi Temp. 200 °F. Hydro. test pressure 360 psi @ 100 F at temp. °F.
(when applicable)

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

(8/85)-1

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

16955, 16956,
Mfr. Serial No. 16957, 16958

CERTIFICATE OF DESIGN

Design specifications certified by Albert John Wettlaufer P. E. state PA Reg. no. 13335-E
(when applicable)
Design report* certified by N/A P. E. state Reg. no.
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) 0B10596H101 Gland, Plate, for John Crane Seal
conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-2827 Expires October 11, 2008
Enertech, A Div. of Curtiss-Wright Flow
Date 8/24/06 Name Control Corp. Signed Loretta Araya
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of California and employed by HSB CT
of Connecticut have inspected these items described in this data report on 8-24-06 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 8-24-06 Signed [Signature] Commissions CA 1494
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Work performed by: HydroAire Services, Inc.
(name of NR certificate holder)
834 W. Madison - Chicago, IL 60607
(address)

NC-6673
(PO No., Job No., etc.)

2. Owner: First Energy - Beaver Valley Nuclear Power Plant
(name)
Route 168, Shippingport PA, 15077
(address)

3. Name, address and identification of nuclear power plant: First Energy -
Beaver Valley Nuclear Power Plant
Route 168, Shippingport, PA 15077

4. System: Low Head Safety Injection Pump

5a. Items that required Repair or Replacement Activities

Identification								Construction Code			Activity	
No	Type of Item	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name / Section / Division	Edition / Addenda	Code Case(s)	Code Class	Repair / Replace
1	Pump	Goulds	N235B035	NA	N/A	N/A	1979	Sec III	1971S/1973S	None	2	Repair
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

5b. Items installed during Replacement Activities

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

6. ASME Code Section XI applicable for inservice inspection:	2001 (edition)	Thru 2003 ADD (addenda)	NA (Code Case(s))
7. ASME Code Section XI used for repairs or replacements:	2001 (edition)	Thru 2003 ADD (addenda)	NA (Code Case(s))
8. Construction Code used for repairs or replacements:	1971 Summer (edition)	1973 Summer (addenda)	NA (Code Case(s))
9. Design Responsibilities: <u>First Energy - Beaver Valley</u>			
10. Tests conducted: hydrostatic <input type="checkbox"/> pneumatic <input type="checkbox"/> design pressure <input checked="" type="checkbox"/> pressure <u>See Note</u> psi Code Case(s) <u>None</u>			
11. Description of work: Welding of customer controlled drain pipe (HT# 533033) to casing performed to ASME Section III and ASME Section IX under the owners ASME Section XI repair and replacement plan.			
12. Remarks: <u>** Pressure test will performed by Plant when put into Service IAW Plant Repair/Replacement Program</u>			

CERTIFICATE OF COMPLIANCE

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

National Board *Certificate of Authorization* No. NR 92 to use the "NR" stamp expires May 26, 2015

NR Certificate Holder HydroAire Services Inc.

Date 5-3-14 Signed  QA Manager
(authorized representative) (title)

CERTIFICATE OF INSPECTION

I, Reuel Schenck, holding a valid commission Issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of ILL/MICHIGAN and employed by ONECIS INSURANCE COMPANY of LYNN, MA have inspected the repair or replacement described in this report on 5-2-2014 and state that to the best of my knowledge and belief, this repair or replacement activity has been completed in accordance with Section XI of the ASME Code and the *National Board Inspection Code "NR"* rules.

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

Date 5-3-2014 Signed  Commissions NB1182ANIN'S M. 300959
(Inspector) (National Board and jurisdiction no.)

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3733

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Construction Services
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/23/2014Sheet 1 of 1Unit No. 2Order #200543748

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Joseph Oat Corp.	2189-1A	890	2RSS-E21A	1976	Corrected	Yes
Plug, 5/8"	Joseph Oat Corp.	N/A	N/A	Ht. #D83769A	2000	Installed	No

7. Description of Work Plugged and seal welded one tube.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01


Report Number 3733

9. Remarks Code Data Report for heat exchanger attached to previous NIS-2 No. 534. Previous NIS-2 Data Report
Applicable Manufacturer's Data Reports to be attached
No. 1789. No Data Reports available for plugs.

CERTIFICATE OF COMPLIANCE

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

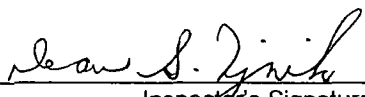
Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed Thomas White  Nuclear Engineer V Date June 2, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 JB9428 A NIB P.A2384
National Board, State, Province, and Endorsements

Date 6-2-, 20 14

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. 01

Report Number 37351. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/05/2014Sheet 1 of 1Unit No. 2Order #200545385

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Residual Heat Removal (Class 2)5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, --- Code Case(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Atlas Industrial Mfg.	3483	2853	2RHS-E21A	1978	Corrected	Yes
Stud, 1-1/8"	Trust Manuf.	N/A	N/A	Trace Code #RR08	2012	Installed	No
Nut, 1-1/8"	Nova Machine	N/A	N/A	Trace Code #4S99	2013	Installed	No

7. Description of Work Replaced one stud and nut.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. 01

Report Number 3735

*Record test pressure and temperature

9. Remarks Code Data Report attached to previous NIS-2 #1133.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White Signature Nuclear Engineer V Date May 05, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-5-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dean S. Irish Commissions JB942TANIB PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-5-, 20 14

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. 01

Report Number 3736

1. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 6/3/1476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 2 1Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Orders, 200601335, 200601788 and 200601789
Repair/Replacement Organization P.O. No., Job No., etc.3. Work Performed By Westinghouse / PCI Energy
(NAME)Type Code Symbol Stamp N/ALake Bluff, IL 60044
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code ASME Section III 1971 Edition, 1972 Addenda, N/A Code Case N/A
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A
(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Reactor Vessel	Combustion Engineering	CE-9071	21669	BV-2RCS-REV21	1975	Corrected	Yes

7. Description of Work PENETRATION 41: was identified as having a PWSCC type flaw located at the bottom of the weld at the 357° location. The flaw is in the axial direction with a length of 0.56 inches. This penetration was repaired using the approved embedded flaw method.

PENETRATION 44: had a 1/8" rounded dye penetrant rejectable indication which was removed by buffing. The indication for this penetration was located at the interface between the tube weld overlay and the cladding weld overlay.

PENETRATION 57: had a 1/8" rounded dye penetrant rejectable indication which was removed by buffing. The indication for this penetration was located at the interface between the tube weld overlay and the cladding weld overlay.

Final Liquid Penetrant examinations of all three repairs met the requires ASME III code acceptance criteria

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

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3736

9. Remarks: Penetration 41 was identified as having a PWSCC type flaw located at the bottom of the weld at the 357° location. The flaw is in the axial direction with a length of 0.56 inches. This penetration was repaired using the approved embedded flaw method. A final code dye penetrant examination was performed and accepted. A post repair ultrasonic examination was performed and identified a slight change to the recorded indication. This change was evaluated in Westinghouse letter LTR-PAFM-14-50, "Recommended Disposition of Recent UT Findings for Penetration 41: Beaver Valley Unit 2". Per this evaluation, the change in flaw will not affect the structural integrity of the penetration during further service. Westinghouse confirmed that Beaver Valley Unit 2 Penetration 41 is acceptable for return to service


Applicable Manufacturer's Data Reports to be attached

Penetrations 44 and 57, each had a 1/8" rounded dye penetrant rejectable indication which was removed by buffing. The indications for both of these penetrations were located at the interface between the tube weld overlay and the cladding weld overlay. A focused LPT of these locations identified them as PT White (no indications).

CERTIFICATE OF COMPLIANCE

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

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

Signed W. Williams  Engineer V
Owner or Owner's Designee, Title

Date June 3, 20 14**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11/4/12 to 5/23/14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

Commissions NB9428ANIB PA2384
National Board, State, Province, and Endorsements

Date 6-4-, 20 14

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. 01

Report Number 37371. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Valve Team
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/28/2014Sheet 1 of 3Unit No. 2Order #200539472

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Chemical and Volume Control (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A

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

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	SPX Process Equipment	0720-147922-1-1	N/A	2CHS-FCV122	2008	Corrected	Yes
Bonnet	SPX Control	1351-1677327-2-1	N/A	N130494-1-1	2014	Installed	Yes
Plug	SPX Control	1351-1677327-1-1	N/A	14-01	2014	Installed	Yes

7. Description of Work Replaced valve bonnet and plug.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. 01

Report Number 3737

*Record test pressure and temperature

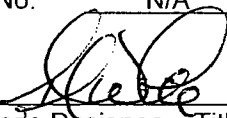
9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No. 2097, contains copy of valve NPV-1.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date May 28, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


Inspector's Signature

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

Date 6-6-, 20 14

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

Pg. 1 of 2

1. Manufactured and certified by SPX Corporation, Copes-Vulcan Operation, 5620 West Road, McKean, PA 16426
(name and address of NFT Certificate Holder)
2. Manufactured for First Energy Corp., PO Box 6100, Johnstown, PA 15906
(name and address of purchaser)
3. Location of installation Beaver Valley Nuclear Power Plant, Route 168, Shippingport, PA 15077
(name and address)
4. Type D-412417 Rev. 0 SA182 Gr F316 78,900 psi N/A 2014
(drawing no.) (material spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1 71 Summer 72 2 N/A
(edition) (Addenda (if applicable) (date)) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A → Revision N/A Date _____
(no.)
7. Remarks
Bonnet Assembly for 3" Class 1500 Valve per Valve Assembly Drawing D-391032 Rev. 7
Customer PO 45423818

8. Nom. thickness N/A Min. design thickness N/A Diameter ID N/A Length overall N/A
9. When applicable, Certificate Holder's Data Reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1351-1677327-2-1 (N130494-1-1)	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 2835 psi Temperature 200°F Hydro. test pressure N/A at temp. _____
(when applicable)

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

Certificate Holder's Serial Nos. 1351-1677327-2-1 through 1351-1677327-2-1

CERTIFICATION OF DESIGN

Design specifications certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E
(when applicable)

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-3053 Expires 02/19/2014

Date 1-20-14 Name SPX Corporation, Copes-Vulcan Operation Signed Joseph R. Cicco
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

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

of Lynn, MA have inspected these items described in this Data Report on 20 Jan 2014, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III,
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 20 Jan 2014 Signed DMB Commission NB 9033N
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

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

Pg. 1 of 2

1. Manufactured and certified by SPX Corporation, Copes-Vulcan Operation, 5620 West Road, McKean, PA 16426
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp., PO Box 5100, Johnstown, PA 15906
(name and address of purchaser)

3. Location of installation Beaver Valley Nuclear Power Plant, Route 168, Shippingport, PA 15077
(name and address)

4. Type D-413245 Rev. 0 SA479 Tp 316L 89 ksi N/A 2014
(drawing no.) (material spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1 1971 Summer 72 2 N/A
(edition) (Addenda (if applicable) (date)) (class) (Code Case no.)

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

7. Remarks
Plug for 3" Class 1500 Valve per Assembly Drawing D-391032 Rev. 7
Customer PO 45423818
SPX Ref. 0720-147922

8. Nom. thickness N/A Min. design thickness N/A Diameter ID N/A Length overall N/A

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1351-1677327-1-1 (14-01)	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 2835 psi Temperature 200°F Hydro. test pressure N/A at temp. _____
(when applicable)

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

Certificate Holder's Serial Nos. 1351-1677327-1-1 through 1351-1677327-1-1

CERTIFICATION OF DESIGN

Design specifications certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E
(when applicable)

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-3053 Expires 10/05/2016

Date 3-10-14 Name SPX Corporation, Copes-Vulcan Operation Signed Joseph L Cicero
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

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

of Lynn, MA have inspected these items described in this Data Report on 10 MAR 2014, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III,
Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 10 MAR 2014 Signed [Signature] Commission NB9033N
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

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. 01

Report Number 3738

1. Owner FirstEnergy Nuclear Operating Company
(NAME)76 South Main Street – Akron, OH 44308
(ADDRESS)2. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)3. Work Performed By BVPS Maintenance
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Date 05/17/2014Sheet 1 of 1Unit No. 2Order #200543749

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

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Recirculation Spray (Class 2)5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Joseph Oat Corp.	2189-1B	891	2RSS-E21B	1976	Corrected	Yes
Plug, 5/8"	Joseph Oat Corp.	N/A	N/A	N/A	2002	Installed	No
Plug, 5/8"	Joseph Oat Corp.	N/A	N/A	Ht. #89473A	2002	Installed	No

7. Description of Work Plugged and seal welded three tubes.8. Tests Conducted: Hydrostatic* ☐ Pneumatic* ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☐ Pressure _____ psi Test Temp. _____ °F

*Record test pressure and temperature

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-02 Rev. 01

Report Number 3738

9. Remarks Code Data Report for heat exchanger attached to previous NIS-2 No. 535. No Data Reports available
Applicable Manufacturer's Data Reports to be attached
for plugs.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Thomas White
Owner or Owner's Designee, Title

[Signature]
Nuclear Engineer V Date June 2, 20 14

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, CT have inspected the components described in this Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions 189428 A N I B P 12384
National Board, State, Province, and Endorsements

Date 6-2-, 20 14

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. 01

Report Number 37401. Owner FirstEnergy Nuclear Operating Company
(NAME)Date 06/30/201476 South Main Street – Akron, OH 44308
(ADDRESS)Sheet 1 of 2Unit No. 22. Plant Beaver Valley Power Station (BVPS)
(NAME)P.O. Box 4, Shippingport, PA 15077
(ADDRESS)Order #200604096

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

3. Work Performed By BVPS Maintenance
(NAME)Type Code Symbol Stamp N/AP.O. Box 4, Shippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Steam Vent (Class 2)5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, Code Case ---(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 2001E-2003A(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Copes-Vulcan	8320-95453-3-1	2488	2SVS-PCV101A	1984	Corrected	Yes
Plug	SPX Valves & Controls	0301	N/A	0321-85599-1-1	2003	Installed	Yes
Inner Plug	SPX Valves & Controls	0302	N/A	0321-85599-1-1	2003	Installed	Yes
Studs, 1-1/2"	Nova Machine	N/A	N/A	Trace Code 257C	2006	Installed	No
Studs, 1-1/2"	Trust Manufacturing	N/A	N/A	Trace Code HH90	2010	Installed	No
Nuts, 1-1/2"	Nova Machine	N/A	N/A	Trace Code Z188	2006	Installed	No

7. Description of Work Replaced trim assembly including plug and inner plug, and bonnet studs & nuts.

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. 01

Report Number 3740

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

*Record test pressure and temperature

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1701.


Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Thomas White  Nuclear Engineer V Date June 30, 20 14
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

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

Owner's Report during the period 11-4-12 to 5-23-14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NB9428AJSB PA2384
National Board, State, Province, and Endorsements

Date 7-1-, 20 14

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

Pg. 1 of _____

1. Manufactured and certified by SPX Valves & Controls, 5620 West Road, McKean, PA 16426
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corp., Akron, OH 44309
(name and address of purchaser)
3. Location of installation First Energy, Shippingport, PA 15077
(name and address)
4. Type * * * N/A 2003
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1980 S81 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Plug & Inner Plug for 10" 600# Valve per Assembly Drawing E-266209 Rev. 6
Customer PO 7116044 SPX Order 85599
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 0321-85599-1-1	N/A
(2)	
(3)	
(4)	
(5)	
(6) * Plug S/N 0301	
(7) Dwg E-266671 Rev. 3	
(8) Mat'l - SA182 304	
(9) Tensile - 77 ksi	
(10)	
(11) Inner Plug S/N 0302	
(12) Drawing C-294080 Rev. 0 MKD	
(13) Mat'l SA564 630	
(14) Tensile 155 ksi	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

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

10. Design pressure 1115 psi. Temp. 560 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(7/98)

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

2

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-3053 Expires 10/5/04

Date 9-26-03 Name SPX Valves & Controls Signed [Signature]
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by OneBeacon America Insurance Company of Boston, MA have inspected these items described in this Data Report on 9-26-03, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 9-26-03 Signed [Signature] Commissions 92274
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)