

Marty L. Richey Site Vice President Beaver Valley Power Station P.O. Box 4 Shippingport, PA 15077

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January 22, 2016 L-16-019

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 <u>Eighteenth Refueling Outage Inservice Inspection Summary Report</u>

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 eighteenth 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 third 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 May 25, 2014 to October 30, 2015.

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,

Marty L. Richey

Beaver Valley Power Station, Unit No. 2 L-16-019 Page 2

Enclosure:

Beaver Valley Power Station, Unit No. 2, Eighteenth Refueling Outage Inservice Inspection Summary Report

cc: Nuclear Regulatory Commission (NRC) Region I Administrator NRC Resident Inspector NRC Project Manager Director BRP/DEP Site BRP/DEP Representative

Enclosure L-16-019

Beaver Valley Power Station, Unit No. 2, Eighteenth Refueling Outage Inservice Inspection Summary Report (181 Pages Follow, Including 3 Blank Pages)

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

Inservice Inspection Summary Report

Outage 18, Year 2015

Inspection Term: 5/25/2014 to 10/30/2015

Issue date: <u>1-7-16</u>

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: 2,0 WEILC (M Supervisor, Nuclear Programs

Date: 1/5/16

Reviewed by: <u>Verned</u>. ANII

Date: 1-6-16

Approved by:

Manager, Technical Services Engineering

1/1/16 Date: _

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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

2. Plant	(Name and Address of Owner) Beaver Valley Power Station, PO Box 4, Shippingport, PA 15077						
3. Plant Unit	(Name and Address of Plant) 2 4. Owner Certificate of Authorization (if required)	N/A					
5. Commercial	Service Date <u>11/17/87</u> 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		······
2RCS-REV21	Combustion Engineering	CE-9071	N/A 160591B	<u>N/A</u> 21669
2RCS-SG21B	Westinghouse Electric Corp	DMGT-1962	485066V	W-16599
2RCS-PRE21	Westinghouse Electric Corp	1911	485064V	W18695
2RSS-E21A	Joseph Oat Corp	2189-1A	485070V	890
2RSS-P-21A	Bingham-Willamette	23049	N/A	N/A
2CHS-P21A	Pacific Pumps / Dresser Ind.	49190	N/A	N/A
2RHS-E21A	Atlas Industrial	3483	485068V	2853
2RHS-E21B	Atlas Industrial	3484	485069V	2854
			······	

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

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

FORM NIS-1 (Back)

8.	Examination Dates	5/25/20	<u>14</u> to	10/30/2	2015		
9 .	Inspection Period Identit	fication: _4	/30/2015 to 8/28	/2018		 	
10	. Inspection Interval Ider	ntification: <u>8</u>	/29/2008 to 8/28	/2018		 	
11	Applicable Edition of S	Section XI	2001	Addenda	2003		

12. Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 15

- 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 18 and Refueling Outage 2R18. 2R18 was the first outage in the 3rd Period of the 3rd Ten-Year Interval. Examination of Exam Category B-D components were completed during 2R18 to satisfy the percentage requirements for the previous 40-Month Period as allowed in IWA-2430(c)(2). 2R18 occurred 5 months following the end of the 2nd 40-month Period. Eighteen (18) Note that 90% of the required coverage was not obtained. These examinations have a status of 'L' in Appendix I and will be identified in relief requests for submittal to the NRC. The ASME XI completion percentage requirements are on schedule to be completed for the 3rd Ten-Year Interval, which includes the next refueling outage 2R19.
- 14. Abstract of Results of Examination and Tests. See text of summary report for results details. One item of particular interest was the eddy current examination performed on reactor vessel head penetration 41 (See Code Cases N-770-1 and N-729-1 Examinations).

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	12/15/2015	Signed	FENOC	By	6-ucht					
			(Owner)		-9					
	CERTIFICATE OF INSERVICE INSPECTION									
I, the undersig	gned, holding a vali	l commission issued	by the National Boa		ure Vessel Inspectors am Boiler Inspection and mpany of Connecticut					
and the State	or Province of	Pennsylvania	and employed	d by	of					
]	Hartford, CT	have inspected	the components desc	ribed in this Owner's	Report during the period					
5/2	5/2014 to	10/30/20	15 and state	e that to the best of my	knowledge and belief, the					
Owner has per	rformed examination	is and tests and take	n corrective measure	s described in this Ow	ner's Report in accordance					
	ction Plan and as re				•					
				my warranty, expresse	d or implied, concerning					
				Report. Furthermore,						
				operty damage or a los						
	, cted with this inspe-		1	·····						
Ω.		. //								
Dea	w Mr		Commissions		NIB, PA 2384					
	Inspector's Signatur	e	1	National Board, State, Pro	ovince and Endorsements					
Date	-6-/6	<u></u> _								

OUTAGE SUMMARY

ASME XI Vessel, Piping and Support Examinations

During the Eighteenth Refueling Outage (2R18) 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 first outage in the third period of the 3rd Ten-Year Interval. Also included in this report are examinations performed prior to 2R18 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. One-hundred, thirty-five (135) Class 1 exams were performed using volumetric, surface and visual examination methods. See Appendix I for the specific components and examinations methods.
- 2. One-hundred, eighty-three (183) Class 2 exams were performed using volumetric, surface and visual examination methods. See Appendix I for the specific components and examinations methods.
- 3. Sixty-two (62) Class 3 exams were performed using visual examination methods. See Appendix I for the specific components and examination methods.
- 4. Three (3) 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 2R18. Bare metal visual examinations were performed on four Reactor Vessel hot and cold leg nozzle dissimilar metal welds per N-770-1. UT examinations were performed on the RV Head penetrations; no repairs were required. A bare metal visual examination 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.

On September 11, 2015, during preparation for the 2R18 reactor vessel head examinations, it was discovered that following the 2R17 repair of Penetration 41, that the dye penetrant and ultrasonic examinations were performed as required by Table 1 of ASME Code Case N-729-1, but the eddy current examination required by Relief Request 2-TYP-3-RV-03 was not performed. During 2R18 the eddy current examination was performed on Penetration 41. The examination was SAT.

IWE Examination

During 2R18, a reexamination of Random Location RN-063 on the inside surface of the containment liner was completed. The thickness examination of this location in 2R15 exceeded the statistical screening criteria. The 2R18 examination confirmed that the thickness is essentially unchanged since the original 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 2R18. 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 eight UNSAT examinations during 2R18. All eight were boric acid related that were evaluated and resolved by the Boric Acid Team.

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.

<u>NIS-2 Forms</u>

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

Sum_No	Component_ID	Description	Class	Cata				
001100	2CHS-PSR038	SUPPORT	Class			Method	lso	Status
002000	2CHS-PSST037	SUPPORT	1	F-A	F1.10R	VT-3	107404-2	С
004600	2CHS-PSSH658X	SUPPORT	1	F-A	F1.10T	VT-3	107404-2	с
005700	2CHS-490-1C	PIPE WELD	1	F-A	F1.10S	VT-3	107408-2	с
017850	CHS-047	RI-ISI SEGMENT	1	R-A	R1.11	UT	107408-2	С
026600	2CHS-PSSH050	SUPPORT	1	R-A	R1.12	VT-2	107419	С
027400	2CHS-PSR049	SUPPORT	1	F-A	F1.10S	VT-3	107424-2	С
029400	2CHS-PSST044	SUPPORT	1	F-A	F1.10R	VT-3	107424-2	С
033500	107425-MJ-04-B-1 TO 4	PIPE BOLTING STUD BOLTS	1	F-A	F1.10T	VT-3	107425-3	с
034200	2CHS-PSR653X	SUPPORT	1	B-G-2	B7.50	VT-1	107425-3	с
034500	2CHS-PSR654X	SUPPORT	1	F-A	F1.10R	VT-3	107428-2	с
037700	2CHS-PSR067A	SUPPORT	1	F-A	F1.10R	VT-3	107428-2	С
038200	2CHS-PSR066X	SUPPORT	1	F-A	F1.10R	VT-3	110733-2	С
049500	2CHS-PSST072	SUPPORT	1	F-A	F1.10R	VT-3	110733-2	с
050000	2CHS-PSR073	SUPPORT	1	F-A	F1.10T	VT-3	110739-2	С
050500	2CHS-PSST052	SUPPORT	1	F-A	F1.10R	VT-3	110739-2	с
062500	2DGS-PSR104	SUPPORT	1	F-A	F1.10T	VT-3	110739-2	С
062900	2DGS-PSR103	SUPPORT	1	F-A	F1.10R	VT-3	110771-2	с
063200	2DGS-PSSP879	SNUBBER	1	F-A	F1.10R	VT-3	110771-2	с
063300	2DGS-PSR053	SUPPORT	1	F-A	F1.10N	VT-3	110772-3	с
066100	2DGS-PSR101	SUPPORT	1	F-A	F1.10R	VT-3	110772-3	с
066200	2DGS-PSA102	SUPPORT	1	F-A	F1.10R	VT-3	110772-3	с
100163	2RN-063	RANDOM LINER 63	1	F-A	F1.10A	VT-3	110772-3	С
106350	RCS-018	RI-ISI SEGMENT	MC	IWE	E4.12	UTT	Plate O7	В
127600	2RCS-PSR089X	SUPPORT	1	R-A	R1.12	VT-2	107009-3	В
129100	2RCS-PSSP035	SNUBBER	1	F-A	F1.10R	VT-3	107014-4	С
129800	2RCS-PSSH052X	SUPPORT	1		F1.10N	VT-3	107014-4	с
131950	RCS-089	RI-ISI SEGMENT	1		F1.10S	VT-3	107014-4	С
133700	107015-MJ-01-B-1 TO 8	2RCS-FE482 STUD BOLTS	1		R1.12	VT-2	107015-2	В
138900	2RCS-009-F01	PIPE WELD	1		B7.50	VT-1	107015-2	С
139200	2RCS-009-F02	PIPE WELD	1		R1.11		110228-4	L
139400	2RCS-MOV595-B-1 TO 24	2RCS-MOV595 STUDS	1		R1.11		110228-4	С
139500	2RCS-MOV595-B-1 TO 24	2RCS-MOV595 BOLTING	1		B6.210		110228-4	с
143800	2RCS-007-F03	PIPE WELD	1		B6.230		110228-4	С
	2RCS-007-F04	SAFE-END TO ELBOW			R1.11		110231-4	с
	2RCS-008-3A-2	PIPE WELD			R1.11		110231-4	С
			1	R-A	R1.11	UT	110234-3	С

Sum_No	Component_ID	Description	Class	Category	ltem	Method	iso	Status
153200	2RCS-061-F503	PIPE WELD	1	R-A	R1.11	UT	110238-3	C
154300	2RCS-060-2B-2	PIPE WELD	1	R-A	R1.11	UT	110238-3	c
158100	2RCS-PSR115	SUPPORT	1	F-A	F1.10R	VT-3	110230-3	
159250	RCS-086	RI-ISI SEGMENT	1	R-A	R1.12	VT-2	110901-2	с В
162000	2RCS-PSST024	SUPPORT	1	F-A	F1.10T	VT-2 VT-3	110902-3	
166400	2RCS-PSR006	SUPPORT	1	F-A	F1.10R	VT-3	110902-3	С
173300	2RCS-PSSH032X	SUPPORT	1	F-A	F1.10K	VT-3	110904-2	c
174000	2RCS-PSR033	SUPPORT	1	F-A	F1.100	VT-3	110908-3	c
180950	2RCS-RV551A-SUP	VALVE SUPPORT	1	F-A	F1.40X	VT-3	RV-43A-11	c
182500	110911-MJ1-B-01 TO 12	BOLTING FOR 2RCS*RV551C	1	B-G-2	B7.70	VT-1	110911-4	с Г
187550	2RCS*PRE21-HTR-SLEEVES	HEATER PENETRATION SLEEVES	1	WCAP	0G09140		E-1D-1	E
190100	2RCS*PRE21-C-7	CIRCUMFERENTIAL WELD	1	B-B	B2.11	UT	E-1D-1 E-1D-1	В
190500	2RCS*PRE21-L-6	LONGITUDINAL WELD	1	B-B	B2.11 B2.12	UT	E-1D-1 E-1D-1	С
190800	2RCS*PRE21-N-10	NOZZLE-TO-VESSEL WELD	1	B-D	B3.110	UT		C
191000	2RCS*PRE21-N-11	NOZZLE-TO-VESSEL WELD	1	B-D B-D	B3.110 B3.110	UT	E-1D-1	L
191200	2RCS*PRE21-N-12	NOZZLE-TO-VESSEL WELD	1	B-D B-D	B3.110 B3.110	UT	E-1D-1	L
194900	2RCS*P21A(S)-B01 TO B12	SEAL HOUSING BOLT	1	B-G-2	B7.60	VT-1	E-1D-1 E-1C-1	L
200003	BC-2CHS-E24	BOLTED CONNECTION	2	BoltCon	Bolt2	VT-1 VT-2		С
200004	BC-2CHS-HCV137	BOLTED CONNECTION	2	BoltCon	Bolt2 Bolt2	VT-2 VT-2	E-2D	С
200006	BC-110312-MJ-1	BOLTED CONNECTION	2	BoltCon	Bolt2 Bolt2	VT-2 VT-2	110312	с
200007	BC-110312-MJ-2	BOLTED CONNECTION	2	BoltCon	Bolt2 Bolt2	VT-2 VT-2	110312	С
200037	BC-2RHS-FE607B-MJ-2	BOLTED CONNECTION	2	BoltCon	Bolt2	VT-2 VT-2	110312	С
200040	BC-2RHS-MOV750A	BOLTED CONNECTION	2	BoltCon	Bolt2	VT-2 VT-2	107115	С
200041	BC-2RHS-MOV750B	BOLTED CONNECTION	2	BoltCon	Bolt2	VT-2 VT-2	110240	С
200042	BC-2RHS-E21A	BOLTED CONNECTION	2	BoltCon	Bolt2	VT-2	110241 E-2P	С
200043	BC-2RHS-E21B	BOLTED CONNECTION	2	BoltCon	Bolt2	VT-2 VT-2	E-2P E-2P	С
200044	BC-2RCS-FE480-MJ-1	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2 VT-2	E-∠P 107005	C
200045	BC-2RCS-FE481-MJ-1	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2 VT-2		В
200046	BC-2RCS-FE482-MJ-1	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2 VT-2	107010	В
200047	BC-2RCS-SG21A-MNWYS	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2 VT-2	107015	В
200048	BC-2RCS-SG21B-MNWYS	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2 VT-2	E-1B	В
200049	BC-2RCS-SG21C-MNWYS	BOLTED CONNECTION	1	BoltCon	Bolt1	VT-2 VT-2	E-1B	В
200088	BC-2RCS-REV21-Flg Bolts	BOLTED CONNECTION	1	BoltCon	Bolt1		E-1B	В
200089	BC-2RCS-PRE21-Manway	BOLTED CONNECTION	1	BoltCon		VT-2	E-1A	В
200091	BC-2RHS-FE607A-MJ-2	BOLTED CONNECTION	2	BoltCon	Bolt1 Bolt2	VT-2	E-1D-1	В
200092	PT-2-Leakage Package 2	Leakage during RHS "A" Train	2	Press		VT-2	107105	С
	0		2	F1622	Test	VT-2	RM-410-1	С

Sum_No	Component_ID	Description	Class	Category	ltem	Method		Chatter
200093	PT-2-Leakage Package 3	Leakage during RHS "B" Train	2	Press	Test		Iso	Status
200098	PT-2-Leakage Package 8	Terry Turbine OST	3	Press	Test	VT-2	RM-410-1	С
200099	PT-2-Leakage Package 9	20ST-11.14B High Head Full Flow	2	Press	Test	VT-2	RM-421-2	С
200102	PT-2-Leakage Package 11	20ST-11.14A Low Head SI Full Flow	2	Press	Test	VT-2 VT-2	RM-411-1	C
200106	PT-2-Leakage Package 14	LETDOWN INSERVICE	2	Press	Test	VT-2 VT-2	RM-411-1	В
200110	PT-2-Leakage Package 18	Cavity Fill 20M-11.4C	2	Press	Test		RM-410-1	С
200112	PT-2-Leakage Package 20	2BVT-13.5 2RSSP21A Pump run	2	Press	Test	VT-2	RM-411-1	С
200113	PT-2-Leakage Package 21	2BVT-13.5 2RSSP21B Pump run	2	Press	Test	VT-2	RM-414C-1	С
200114	PT-2-Leakage Package 22	2BVT-13.5 2RSSP21C Pump run	2	Press		VT-2	RM413-1	С
200115	PT-2-Leakage Package 23	2BVT-13.5 2RSSP21D Pump run	2		Test	VT-2	RM413-1	С
200120	PT-2-Leakage Package 29	Mode 3 walkdown	2	Press	Test	VT-2	RM413-1	С
200130	PT-2-Leakage Package 39	Leakage during 20ST-13.1	2	Press	Test	VT-2	N/A	С
200131	PT-2-Leakage Package 40	Leakage during 20ST-13.2	2	Press	Test	VT-2	RM-413-2	С
203300	2RCS*P21C(S)-B01 TO B12	SEAL HOUSING BOLT	2 1	Press	Test	VT-2	RM-413-2	С
205700	2RCS*REV21-CAVLIN-A	CAVITY LINER LUGS		B-G-2	B7.60	VT-1	E-1C-1	С
205800	2RCS*REV21-CAVLIN-B	CAVITY LINER LUGS	1	F-A	F1.40E	VT-3	E-1A-2	с
205900	2RCS*REV21-CAVLIN-C	CAVITY LINER LUGS	1	F-A	F1.40E	VT-3	E-1A-2	С
206000	2RCS*REV21-CAVLIN-D	CAVITY LINER LUGS	1 1	F-A	F1.40E	VT-3	E-1A-2	С
206100	2RCS*REV21-CAVLIN-E	CAVITY LINER LUGS	1	F-A	F1.40E	VT-3	E-1A-2	С
206200	2RCS*REV21-CAVLIN-F	CAVITY LINER LUGS	1	F-A	F1.40E	VT-3	E-1A-2	С
206950	2REV-HEAD-OD	VESSEL HEAD OD SURFACE		F-A	F1.40E	VT-3	E-1A-2	С
206960	2REV-HEAD-PENE-ID	VESSEL HEAD PENETRATIONS	1	N-729	B4.10	VE	E-1A-2	В
206970	2REV-HEAD-PENE-16	PENE 16 REPAIR AREA	1	Ň-729	B4.20	UT	E-1A-2	В
206971	2REV-HEAD-PENE-51	PENE 51 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	В
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	В
206974	2REV-HEAD-PENE-49	PENE 49 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	В
206975	2REV-HEAD-PENE-57	PENE 57 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	В
206976	2REV-HEAD-PENE-44	PENE 44 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	В
206977	2REV-HEAD-PENE-41	PENE 41 REPAIR AREA	1	N-729	B4.20	PT	E-1A-2	В
207800	2RCS*REV21-CRDM-54	CRDM HOUSING WELD	. 1	N-729	B4.20	PT	E-1A-2	В
208200	2RCS*REV21-CRDM-58	CRDM HOUSING WELD	1	B-O	B14.10	PT	E-1A-2	С
208900	2RCS*REV21-CRDM-65	CRDM HOUSING WELD	1	B-O	B14.10	PT	E-1A-2	С
208910	2RCS*REV21-SHRD-SUP-1		1	B-O	B14.10	PT	E-1A-2	С
208920	2RCS*REV21-SHRD-SUP-2	COOLING SHROUD SUP LUG	1	F-A	F1.40E	VT-3	E-1A-2	С
208930	2RCS*REV21-SHRD-SUP-3	COOLING SHROUD SUP LUG	1	F-A	F1.40E	VT-3	E-1A-2	С
		COOLING SHROUD SUP LUG	1	F-A	F1.40E	VT-3	E-1A-2	С

APPENDIX I - 2R18 ISI SCOPE

209700 2RCS*REV21-INT VESSEL INTERIOR 1 B-N-1 B13.10 VT-3 E-1A-2 c 212000 RCS*REV21-LIG-01 T0 38 THREADS IN FLANGE 1 B-G-1 B6.40 UT E-1A-2 c 214700 2RCS*REV21-LIG-01 T0 38 THREADS IN FLANGE 1 B-G-1 B6.40 UT E-1A-2 c 214700 2RCS*REV21-LIG-01 T0 38 THREADS IN FLANGE 1 B-G-1 B6.40 UT E-1A-2 c 218000 2RCS*REV21-N-26 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218400 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 C 218400 2RCS*REV21-N27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 C 224360 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.30 UT E-1A-2 C 226000 ZRCS*REV21-SUD-51 BOLTING		Component_ID	Description	Class	Category	ltem	Method	lso	Status
212800 2RCS*REV21-LIG-20 TO 38 THREADS IN FLANGE 1 B-G-1 B6.40 UT E-1A-2 c 214700 2RCS*REV21-LIG-39 TO 58 THREADS IN FLANGE 1 B-G-1 B6.40 UT E-1A-2 c 218000 2RCS*REV21-N-24 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218300 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218400 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218500 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 VT-1 E-1A-2 c 224760 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230160 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 235831 2RCS*REV21-WASHER-39-58 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 235831	209700	2RCS*REV21-INT	VESSEL INTERIOR	1	B-N-1	B13.10	VT-3	E-1A-2	c
21200 2RCS*REV21-LIG-30 TO 38 THREADS IN FLANGE 1 B-G-1 B6.40 UT E-1A-2 c 214700 2RCS*REV21-N-24 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218200 2RCS*REV21-N-26 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218300 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218400 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218500 2RCS*REV1-NUT-39 TO 58 BOLTING 1 B-G-1 B6.20 VT-1 E-1A-2 c 226700 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 229000 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230160 ZRCS*REV21-WASHEA-39 - 58 BOLTING 1 B-G-1 B6.20 UT E-1A-2 L 235833			THREADS IN FLANGE	1	B-G-1	B6.40	UT		-
214700 2RCS*REV21-LIG-39 TO 58 THREADS IN FLANGE 1 BC-1 BC40 UT E-1A-2 B 218000 2RCS*REV21-N-24 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218200 2RCS*REV21-N-26 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218300 2RCS*REV21-N-28 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218400 2RCS*REV21-N-28 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 C 224360 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 226700 2RCS*REV21-STUD-31 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230160 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.30 UT E-1A-2 c 235332 ZRCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F140E VT-3 E-1A-2 L 2358			THREADS IN FLANGE	1	B-G-1	B6.40	UT		
218000 2RCS*REV21-N-26 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 B 218200 2RCS*REV21-N-26 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 C 218400 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 C 218400 2RCS*REV21-NUT-39 TO 58 BOLTING 1 B-G-1 B6.10 VT-1 E-1A-2 C 224300 2RCS*REV1-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 UT E-1A-2 C 226700 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 C 239300 2RCS*REV21-SUP-5A BOLTING 1 B-G-1 B6.20 UT E-1A-2 C 235831 2RCS*REV21-SUP-SAD-1 A LOOP INLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235833 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L			THREADS IN FLANGE	1	B-G-1	B6.40	UT		
218200 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 c 218300 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 c 218400 2RCS*REV21-NUT-39 TO 58 BOLTING 1 B-G-1 B6.10 VT-1 E-1A-2 c 224360 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 226700 2RCS*REV21-STUD-25 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 223000 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230100 2RCS*REV21-SUD-S1 BOLTING 1 B-G-1 B6.50 VT-1 E-1A-2 L 236831 2RCS*REV21-SUP-SAD-2 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 236833 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 236833<		2RCS*REV21-N-24	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT		
218300 2RCS*REV21-N-27 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 G 218400 2RCS*REV21-NUT-39 TO 58 BOLTING 1 B-G-1 B6.10 VT-1 E-1A-2 G 224300 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 VT-1 E-1A-2 C 226700 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 C 229000 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.30 UT E-1A-2 C 230160 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235831 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235833 2RCS*REV21-SUP-SAD-3 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-3 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 C			NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT	E-1A-2	
218400 2RCS*REV21-NUT-38 NOZZLE-TO-SAFE-END WELD 1 R-A R1.11 UT E-1A-2 C 218500 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.10 VT-1 E-1A-2 C 224300 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 VT-1 E-1A-2 C 226700 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.20 UT E-1A-2 C 228300 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.30 UT E-1A-2 C 23631 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235832 2RCS*REV21-SUP-SAD-2 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235833 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L <td></td> <td></td> <td>NOZZLE-TO-SAFE-END WELD</td> <td>1</td> <td>R-A</td> <td>R1.11</td> <td>UT</td> <td></td> <td></td>			NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT		
218560 2RCS*REV21-NUT-39 TO 58 BOLTING 1 B-G-1 B6.10 VT-1 E-1A-2 c 224360 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 226700 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 229300 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.30 UT E-1A-2 c 230160 2RCS*REV21-SUD-5AD-1 BOLTING 1 B-G-1 B6.50 VT-1 E-1A-2 c 235832 2RCS*REV21-SUP-SAD-1 A LOOP INLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235833 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242900		2RCS*REV21-N-28	NOZZLE-TO-SAFE-END WELD	1	R-A	R1.11	UT		
224360 2RCS*REV21-STUD-39 TO 58 BOLTING 1 B-G-1 B6.20 VT-1 E-1A-2 c 226700 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 227900 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.30 UT E-1A-2 c 230160 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 23631 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 23633 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 23633 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 242800 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c			BOLTING	1	B-G-1				
226700 2RCS*REV21-STUD-25 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 227900 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.30 UT E-1A-2 c 229300 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230160 2RCS*REV21-WASHER-39 - 58 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 236381 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235832 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1A-2 c 242900 2RCS*G21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1A-2 c 242900 2RLS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1A-2 c 2426			BOLTING	1	B-G-1	B6.20	VT-1		
227900 2RCS*REV21-STUD-37 BOLTING 1 B-G-1 B6.30 UT E-1A-2 c 229300 2RCS*REV21-STUD-51 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230160 2RCS*REV21-SUD-SA BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 235831 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235833 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 c 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242900 2RCS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-PSSP521X SNUBBER 1 F-A F1.10N VT-1 107120-3 c 2		2RCS*REV21-STUD-25	BOLTING	1	B-G-1	B6.20			
229300 2RCS*REV21-SUD-51 BOLTING 1 B-G-1 B6.20 UT E-1A-2 c 230160 2RCS*REV21-WASHER-39 -58 BOLTING 1 B-G-1 B6.50 VT-1 E-1A-2 c 235831 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235832 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 C 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 24700 2RCS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 250400 2RHS-MOY701B-B-1 TO 18 2HS-MOY701B STUDS AND NUTS 1 B-G-2 B7.70 VT-1 108202-4 c 253200 2SIS-F42-B-1 TO 18 2SIS-42 STUDS AND NUTS 1 F-A F1.10S VT-3 108202-		2RCS*REV21-STUD-37	BOLTING	1	B-G-1	B6.30			
230160 2RCS*REV21-WASHER-39 - 58 BOLTING 1 B-G-1 B6.50 VT-1 E-1A-2 c 235831 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235832 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 242800 2RCS*G21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242900 2RCS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-PSSP521X SNUBBER 1 F-A F1.10N VT-3 107120-3 E 250400 2RHS-MOV701B-B-1 TO 18 2SIS-142 STUDS AND NUTS 1 B-G-2 B7.70 VT-1 107120-3 E 253200 2SIS-PSSH012A SUPPORT 1 F-A F1.10T VT-3 108202-4 c		2RCS*REV21-STUD-51	BOLTING	1	B-G-1	B6.20	UT		
235831 2RCS*REV21-SUP-SAD-1 A LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235832 2RCS*REV21-SUP-SAD-2 A LOOP INLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 242800 2RCS*S621B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-MOV701B-S-1 TO 18 2RHS-MOV701B STUDS AND NUTS 1 B-G-2 B7.70 VT-1 107120-3 E 250600 2SIS-142-B-1 TO 18 2SIS-142 STUDS AND NUTS 1 B-G-2 B7.70 VT-1 108202-4 c 253200 2SIS-PSST608 SUPPORT 1 F-A F1.10S VT-3 108202-4 c 253200 2SIS-698-F804 WELDED ATT FOR 2SIS-PSSH012A 1 B-K B10.20 PT<		2RCS*REV21-WASHER-39 - 58	BOLTING	1	B-G-1				
235832 2RCS*REV21-SUP-SAD-2 A LOOP INLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235833 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 C 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242900 2RCS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-PSSP521X SNUBBER 1 F-A F1.10N VT-3 107120-3 E 250600 2SIS-142-B-1 TO 18 2RHS-MOV701B STUDS AND NUTS 1 B-G-2 B7.70 VT-1 108202-4 c 253200 2SIS-PSST608 SUPPORT 1 F-A F1.10T VT-3 108202-4 c 253200 2SIS-PSSH012A SUPORT 1 F-A F1.10S VT-3 108202-4 c		2RCS*REV21-SUP-SAD-1	A LOOP OUTLET NOZZLE SADDLE	1	F-A				Ĺ
235833 2RCS*REV21-SUP-SAD-3 B LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 L 235835 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 c 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242900 2RCS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-MOV701B-S-1DR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-MOV701B-B-1 TO 18 2RHS-MOV701B STUDS AND NUTS 1 B-G-2 B7.70 VT-1 107120-3 E 250600 2SIS-142-B-1 TO 18 2SIS-142 STUDS AND NUTS 1 B-G-2 B7.70 VT-1 108202-4 c 253200 2SIS-PSSH012A SUPPORT 1 F-A F1.10T VT-3 108202-4 c 253400 2SIS-069-F804 WELDED ATT FOR 2SIS-PSSH012A 1 B-K B10.20 PT 108202	235832	2RCS*REV21-SUP-SAD-2	A LOOP INLET NOZZLE SADDLE	1	F-A				-
235835 2RCS*REV21-SUP-SAD-5 C LOOP OUTLET NOZZLE SADDLE 1 F-A F1.40E VT-3 E-1A-2 c 242800 2RCS*SG21B-N-2AIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 242900 2RCS*SG21B-N-2BIR NOZZLE INSIDE RADIUS 1 B-D B3.140 UT E-1B-1 c 247100 2RHS-PSSP521X SNUBBER 1 F-A F1.10N VT-3 107120-3 c 250400 2RHS-MOV701B-B-1 TO 18 2RHS-MOV701B STUDS AND NUTS 1 B-G-2 B7.70 VT-1 107120-3 E 250600 2SIS-142-B-1 TO 18 2SIS-142 STUDS AND NUTS 1 B-G-2 B7.70 VT-1 108202-4 c 253200 2SIS-PSST608 SUPPORT 1 F-A F1.10S VT-3 108202-4 c 253400 2SIS-069-F804 WELDED ATT FOR 2SIS-PSSH012A 1 B-K B10.20 PT 108202-4 c 254600 2SIS-287-1A PIPE WELD 1 R-A R1.11 UT 108202-4 c		2RCS*REV21-SUP-SAD-3	B LOOP OUTLET NOZZLE SADDLE	1	F-A				L
2428002RCS*SG21B-N-2AIRNOZZLE INSIDE RADIUS1B-DB3.140UTE-1B-1c2429002RCS*SG21B-N-2BIRNOZZLE INSIDE RADIUS1B-DB3.140UTE-1B-1c2471002RHS-PSSP521XSNUBBER1F-AF1.10NVT-3107120-3c2504002RHS-MOV701B-B-1 TO 182RHS-MOV701B STUDS AND NUTS1B-G-2B7.70VT-1107120-3E2506002SIS-142-B-1 TO 182SIS-142 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2532002SIS-PSST608SUPPORT1F-AF1.10TVT-3108202-4c2532002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2598002SIS-147-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2598002SIS-147-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266650SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-2110712-2B266250SIS-046BRI-ISI SEGMENT1 <td< td=""><td></td><td></td><td>C LOOP OUTLET NOZZLE SADDLE</td><td>1</td><td>F-A</td><td></td><td></td><td></td><td>c</td></td<>			C LOOP OUTLET NOZZLE SADDLE	1	F-A				c
2429002RCS*SG21B-N-2BIRNOZZLE INSIDE RADIUS1B-DB3.140UTE-1B-1c2471002RHS-PSSP521XSNUBBER1F-AF1.10NVT-3107120-3c2504002RHS-MOV701B-B-1 TO 182RHS-MOV701B STUDS AND NUTS1B-G-2B7.70VT-1107120-3E2506002SIS-142-B-1 TO 182SIS-142 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2532002SIS-PSST608SUPPORT1F-AF1.10TVT-3108202-4c2532002SIS-PSSH012ASUPPORT1F-AF1.10SVT-3108202-4c2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2598002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c266250SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266250SIS-044BRI-ISI SEGMENT1R-AR1.12VT-2110712-3B269250SIS-046BRI-ISI SEGMENT1R-A		2RCS*SG21B-N-2AIR	NOZZLE INSIDE RADIUS	1	B-D	B3.140	UT		
2471002RHS-PSSP521XSNUBBER1F-AF1.10NVT-3107120-3c2504002RHS-MOV701B-B-1 TO 182RHS-MOV701B STUDS AND NUTS1B-G-2B7.70VT-1107120-3E2506002SIS-142-B-1 TO 182SIS-142 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2523002SIS-PSST608SUPPORT1F-AF1.10TVT-3108202-4c2532002SIS-PSSH012ASUPPORT1F-AF1.10SVT-3108202-4c2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2559002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2598002SIS-147-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108202-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B269250SIS-046BRI-ISI SEGMENT1R-			NOZZLE INSIDE RADIUS	1	B-D	B3.140			
2504002RHS-MOV701B-B-1 TO 182RHS-MOV701B STUDS AND NUTS1B-G-2B7.70VT-1107120-3E2506002SIS-142-B-1 TO 182SIS-142 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2523002SIS-PSST608SUPPORT1F-AF1.10TVT-3108202-4c2532002SIS-PSSH012ASUPPORT1F-AF1.10SVT-3108202-4c2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGM		2RHS-PSSP521X	SNUBBER	1	F-A	F1.10N	VT-3		
2506002SIS-142-B-1 TO 182SIS-142 STUDS AND NUTS1B-G-2B7.70VT-1108202-4c2523002SIS-PSST608SUPPORT1F-AF1.10TVT-3108202-4c2532002SIS-PSSH012ASUPPORT1F-AF1.10SVT-3108202-4c2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110785-2B		2RHS-MOV701B-B-1 TO 18	2RHS-MOV701B STUDS AND NUTS	1	B-G-2	B7.70	VT-1		
2523002SIS-PSST608SUPPORT1F-AF1.10TVT-3108202-4c2532002SIS-PSSH012ASUPPORT1F-AF1.10SVT-3108202-4c2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110785-2B		2SIS-142-B-1 TO 18	2SIS-142 STUDS AND NUTS	1	B-G-2				
2532002SIS-PSSH012ASUPPORT1F-AF1.10SVT-3108202-4c2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B26650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110775-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110785-2B		2SIS-PSST608	SUPPORT	1	F-A				
2534002SIS-069-F804WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110775-2B		2SIS-PSSH012A	SUPPORT	1	F-A	F1.10S			
2535002SIS-069-F805WELDED ATT FOR 2SIS-PSSH012A1B-KB10.20PT108202-4c2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110785-2B		2SIS-069-F804	WELDED ATT FOR 2SIS-PSSH012A	1	B-K				
2546002SIS-287-1APIPE WELD1R-AR1.11UT108202-4c2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110785-2B		2SIS-069-F805	WELDED ATT FOR 2SIS-PSSH012A	1	B-K	B10.20			
2555002SIS-148-B-1 TO 182SIS-148 STUDS AND NUTS1B-G-2B7.70VT-1108204-4E2598002SIS-147-B-1 TO 182SIS-147 STUDS AND NUTS1B-G-2B7.70VT-1108207-3E266250SIS-045BRI-ISI SEGMENT1R-AR1.12VT-21107107-3B266650SIS-044BRI-ISI SEGMENT1R-AR1.12VT-21107121-2B269250SIS-046BRI-ISI SEGMENT1R-AR1.12VT-21107123-3B272150SIS-090BRI-ISI SEGMENT1R-AR1.12VT-2110777-2B275250SIS-085BRI-ISI SEGMENT1R-AR1.12VT-2110785-2B		2SIS-287-1A	PIPE WELD	1	R-A	R1.11	UT		
266250 SIS-045B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107107-3 B 266650 SIS-044B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107121-2 B 269250 SIS-046B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107123-3 B 272150 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107123-3 B 275250 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110777-2 B 275250 SIS-085B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110785-2 B			2SIS-148 STUDS AND NUTS	1	B-G-2	B7.70	VT-1		E
266250 SIS-045B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107107-3 B 266650 SIS-044B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107121-2 B 269250 SIS-046B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107123-3 B 272150 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107123-3 B 275250 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110777-2 B 275250 SIS-085B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110785-2 B			2SIS-147 STUDS AND NUTS	1	B-G-2	B7.70	VT-1		Е
266650 SIS-044B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107121-2 B 269250 SIS-046B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107123-3 B 272150 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110777-2 B 275250 SIS-085B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110785-2 B			RI-ISI SEGMENT	1	R-A	R1.12	VT-2		
269250 SIS-046B RI-ISI SEGMENT 1 R-A R1.12 VT-2 1107123-3 B 272150 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110777-2 B 275250 SIS-085B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110785-2 B			RI-ISI SEGMENT	1	R-A	R1.12	VT-2		
272150 SIS-090B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110777-2 B 275250 SIS-085B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110785-2 B			RI-ISI SEGMENT	1	R-A	R1.12	VT-2		
275250 SIS-085B RI-ISI SEGMENT 1 R-A R1.12 VT-2 110785-2 B			RI-ISI SEGMENT	1	R-A	R1.12			
			RI-ISI SEGMENT	1	R-A	R1.12			
	277250	SIS-087B	RI-ISI SEGMENT	1					

	Component_ID	Description	Class	Category	ltem	Method	lso	Status
283900	2SIS-PSR536	SUPPORT	1	F-A	F1.10R	VT-3	110791-2	C
284500	2SIS-PSR553X	SUPPORT	1	F-A	F1.10R	VT-3	110791-2	c
291950	2SIS-006-15-1	LOOP B C/L INJECTION	1	MRP	146	UT	110801-3	B
295350	2SIS-006-24-1	LOOP B H/L INJECTION	1	MRP	146	UT	110802-3	B
298650	2SIS-006-12-1	LOOP A C/L INJECTION	1	MRP	146	UT	110818-3	C
301650	2SIS-006-26-1	LOOP A H/L INJECTION	1	MRP	146	UT	110819-3	B
302900	2SIS-271-F04	PIPE WELD	1	R-A	R1.11	UT	110829-3	
303400	2SIS-PSSH100	SUPPORT	1	F-A	F1.10S	VT-3	110829-3	C
303600	2SIS-PSR101X	SUPPORT	1	F-A	F1.10R	VT-3	110829-3	С
304300	2SIS-271-F06A	PIPE WELD	1	R-A	R1.11	UT	110829-3	С
305200	2SIS-PSA103X	SUPPORT	1	F-A	F1.10A	VT-3	110830-3	С
306200	2SIS-PSR105X	SUPPORT	1	F-A	F1.10R	VT-3	110830-3	С
307350	2SIS-006-25-1	LOOP C H/L INJECTION	1	MRP	146	UT	110830-3	с В
307500	2SIS-025-1B	PIPE WELD	1	R-A	R1.11	UT	110830-3	
307680	2BDG-009-F04	BUTT WELD	2	R-A	R1.11	UT	1107108-4E	с с
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 VT-2	108301-4	B
317470	CHS-028C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108302-4	В
318900	2CHS-070-F06	BUTT WELD	2	R-A	R1.11	UT	108302-4	
319800	2CHS-072-F03	BUTT WELD	2	R-A	R1.11	UT	108302-4	c L
322400	2CHS-072-F06	BUTT WELD	2	R-A	R1.11	UT	108302-4	L
324670	CHS-028A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108303-4	B
325850	CHS-026E	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108304-4	В
332270	CHS-028D	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108304-4	В
336000	2CHS-PSR144	SUPPORT	2	F-A	F1.20R	VT-2 VT-3	108308-4	
338100	2CHS-PSR073Y	SUPPORT	2	F-A	F1.20R	VT-3	108308-4	c
339600	2CHS-PSR068Y	SUPPORT	2	F-A	F1.20R	VT-3	108309-4	с с
342550	CHS-026F	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108313-4	B
342800	2CHS-PSR315F	SUPPORT	2	F-A	F1.20R	VT-3	108313-4	
344300	2CHS-PSR372F	SUPPORT	2	F-A	F1.20R	VT-3	108313-4	c
371900	2CHS-PSR203	SUPPORT	2	F-A	F1.20R	VT-3	108342-4	c
373870	CHS-010	RI-ISI SEGMENT	2	R-A	R1.12	VT-3 VT-2	108342-4	с В
380900	2CHS-067-2A	BUTT WELD	2	R-A	R1.12	UT	108342-4	
381300	2CHS-PSR813	SUPPORT	2	F-A	F1.20R	VT-3	108344-6	c
					1.201	VI-0	100344-0	С

	Component_ID	Description	Class	Category	ltem	Method	lso	Status
389450	CHS-016C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108396-6	
389650	CHS-019A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2 VT-2	108396-6	B
391009	2CHS-357-F-13-C	BUTT WELD	2	R-A	R1.12	UT	263020-1	B
391010	2CHS-357-F-12-C	BUTT WELD	2	R-A	R1.11	UT	263020-1	L
392900	2CHS-070-F512	BUTT WELD	2	R-A	R1.11	UT	108397-7	L
393550	CHS-018C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108397-7	с В
393750	CHS-021A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108397-7	
394400	2CHS-276-F502A	BUTT WELD	2	R-A	R1.12	UT	108397-7	В
397750	CHS-017C	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108397-7	C
397950	CHS-020A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2 VT-2		B
434750	CHS-050A	RI-ISI SEGMENT	2	R-A	R1.12	VT-2 VT-2	108398-4	В
461900	2CHS*P21A-A-1	WELDED ATTACHMENT FOR WS-4	2	C-C	C3.30	PT	110298-4	C
462000	2CHS*P21A-A-2	WELDED ATTACHMENT FOR WS-3	2	C-C	C3.30	PT	E-2H-1	L
462100	2CHS*P21A-A-3	WELDED ATTACHMENT FOR WS-2	2	C-C	C3.30	PT	E-2H-1	L
462200	2CHS*P21A-A-4	WELDED ATTACHMENT FOR WS-1	2	C-C	C3.30	PT	E-2H-1 E-2H-1	L
466200	2FWS-PSSH002	SUPPORT	2	F-A	F1.20S	VT-3	E-2⊓-1 101702-4	L
472770	2FNC-112-F500	BUTT WELD	2	R-A	R1.11	UT		С
472780	2FNC-112-F502	BUTT WELD	2	R-A	R1.11	UT	109936-1H	С
478400	2MSS-171-F01	BUTT WELD	2	R-A	R1.11	UT	1107106-1E	С
479350	2MSS-AOV101C STUD1 TO 24	VALVE BOLTING	2	C-D	C4.40	UT	100208-6	С
484200	2MSS-PSR003	SUPPORT	2	F-A	F1.20R	VT-3	100208-6	С
486000	2MSS-PSSH005A	SUPPORT	2	F-A	F1.20R	VT-3 VT-3	100210-4	С
495750	MSS-056	RI-ISI SEGMENT	2	R-A	R1.12	VT-3 VT-2	100211-4	C
495850	MSS-054	RI-ISI SEGMENT	2	R-A	R1.12 R1.12	VT-2 VT-2	510206-3	В
496050	MSS-055	RI-ISI SEGMENT	2	R-A	R1.12 R1.12	VT-2 VT-2	510207-3	B
500200	2QSS-PSST734	SUPPORT	2	F-A	F1.20T	VT-2 VT-3	510207-3	В
500300	2QSS-PSR727	SUPPORT	2	F-A	F1.201	VT-3	107932-4	С
500700	2QSS-PSST176A	SUPPORT	2	F-A	F1.20K	VT-3 VT-3	107932-4 107933-3	С
500770	QSS-016	RI-ISI SEGMENT	2	R-A	R1.12	VT-3 VT-2	520-118	C
500900	2QSS-001-F506	BUTT WELD	2	R-A	R1.12	UT	107933-3	В
501600	2QSS-1 -4AC	BUTT WELD	2	R-A	R1.11	UT		С
502970	2QSS*P21B-SUP	PUMP SUPPORT	2	F-A	F1.40P	VT-3	107933-3	С
505460	QSS-015	RI-ISI SEGMENT	2	R-A	R1.12	-	107933-3	C
505500	2QSS-2 -3AA	BUTT WELD	2	R-A	R1.12 R1.11	VT-2	520-114	В
507460	QSS-020	RI-ISI SEGMENT	2	R-A	R1.11 R1.12	UT VT 2	107934-3	C
511015	QSS-019	RI-ISI SEGMENT	2	R-A	R1.12 R1.12	VT-2	107935-5	В
			2	11-74	rt I. IZ	VT-2	107938-5	В

	Component_ID	Description	Class	Category	item	Method	lso	Status
532100	2RHS-6 -4C	BUTT WELD	2	R-A	R1.11	UT	107103-5	C
532200	2RHS-6 -5A	BUTT WELD	2	R-A	R1.11	UT	107103-5	c
532300	2RHS-6 -5B	BUTT WELD	2	R-A	R1.11	UT	107103-5	C C
533700	2RHS-18 -3CR1	BUTT WELD	2	R-A	R1.11	UT	107104-5	
533800	2RHS-18 -4A	BUTT WELD	2	R-A	R1.11	UT	107104-5	c
533900	2RHS-18 -4B	BUTT WELD	2	R-A	R1.11	UT	107104-5	c
540300	2RHS-016-F03	BUTT WELD	2	R-A	R1.11	UT	1071104-5	c
550800	2RHS-PSR003	SUPPORT	2	F-A	F1.20R	VT-3	107115-4	c
551500	2RHS-010-3-C	BUTT WELD	2	R-A	R1.11	UT	107115-4	с
551700	2RHS-010-3-D	BUTT WELD	2	R-A	R1.11	UT	107116-4	С
563500	2RHS-PSST506X	SUPPORT	2	F-A	F1.20T	VT-3	107118-4	С
569500	2RHS-PSR798X	SUPPORT	2	F-A	F1.20R	VT-3	110727-4	С
573400	2RHS*E21A-C-2	HEAD CIRCUMFERENTIAL WELD # 2	2	C-A	C1.20	VT-2	E-2P-1	С
573700	2RHS*E21A-N-3	NOZZLE-TO-SHELL WELD # 3	2	C-B	C2.21	VT-2 VT-2		С
573800	2RHS*E21A-N-4	NOZZLE-TO-SHELL WELD # 4	2	C-B	C2.21	VT-2 VT-2	E-2P-1	С
573900	2RHS*E21A-C-1	SHELL CIRCUMFERENTIAL WELD # 1	2	C-A	C2.21 C1.10		E-2P-1	С
574200	2RHS*E21B-C-2	HEAD CIRCUMFERENTIAL WELD # 2	2	C-A C-A	C1.10 C1.20	VT-2	E-2P-1	C
574500	2RHS*E21B-N-3	NOZZLE-TO-SHELL WELD # 3	2	C-A C-B	C1.20 C2.21	VT-2	E-2P-1	В
574600	2RHS*E21B-N-4	NOZZLE-TO-SHELL WELD # 4	2	C-B C-B		VT-2	E-2P-1	В
574700	2RHS*E21B-C-1	SHELL CIRCUMFERENTIAL WELD # 1	2	С-А C-A	C2.21	VT-2	E-2P-1	В
581100	2RSS-PSSH454A	SUPPORT	2	C-A F-A	C1.10	VT-2	E-2P-1	В
581200	2RSS-004-F830	WELDED ATT FOR 2RSS-PSSH454A	2	г-а C-C	F1.20S	VT-3	107950-4	С
581300	2RSS-PSSH454B	SUPPORT	2	G-G F-A	C3.20	PT	107950-4	С
581400	2RSS-004-F831	WELDED ATT FOR 2RSS-PSSH454B	2		F1.20S	VT-3	107950-4	С
	2RSS-PSR108	SUPPORT	2	C-C	C3.20	PT	107950-4	С
586560	2RSS-019-F02	BUTT WELD	2	F-A	F1.20R	VT-3	107952-4	С
586580	2RSS-020-F2A	BUTT WELD	2	R-A	R1.11	UT	107959-3E	С
597400	2RSS-PSSH122Y	SUPPORT	2	R-A	R1.11	UT	107960-2A	С
597500	2RSS-009-F801	WELDED ATT FOR 2RSS-PSSH122Y	2	F-A	F1.20S	VT-3	107968-3	С
	2RSS-009-F802	WELDED ATT FOR 2RSS-PSSH122Y		C-C	C3.20	PT	107968-3	С
	2RSS-009-F803	WELDED ATT FOR 2RSS-PSSH122Y WELDED ATTT FOR 2RSS-PSSH122Y	2	C-C	C3.20	PT	107968-3	С
	2RSS-009-F804	WELDED ATT FOR 2RSS-PSSH122Y WELDED ATT FOR 2RSS-PSSH122Y	2	C-C	C3.20	PT	107968-3	С
	2RSS*E21A-WS-1	MECHANICAL RESTRAINT	2	C-C	C3.20	PT	107968-3	С
	2RSS*E21A-WS-3	MECHANICAL RESTRAINT MECHANICAL RESTRAINT	2	F-A	F1.40E	VT-3	E-2L-2	С
	2RSS*E21A-N-12A		2	F-A	F1.40E	VT-3	E-2L-2	С
	2RSS*E21A-N-13A	NOZZLE TO SHELL REINF PAD WELD	2	C-B	C2.11	VT-2	E-2L-2	с
		NOZZLE TO SHELL REINF PAD WELD	2	C-B	C2.11	VT-2	E-2L-2	с

APPENDIX I - 2R18 ISI SCOPE

	Component_ID	Description	Class	Category	ltem	Method	lso	Status
614000	2RSS*E21A-WS-2	STRUCTURAL SUPPORT	2	F-A	F1.40E	VT-3	E-2L-2	
617100	2RSS*E21A-C-1	TUBESHEET TO SHELL WELD # 1	2	C-A	C1.30	VT-2	E-2L-2	C
617200	2RSS*E21A-C-11	TUBESHEET TO SHELL WELD # 11	2	C-A	C1.30	VT-2	E-2L-2	
621120	2RSS*P21A-A-2	WELDED ATT - GUSSET PLATE	2	C-C	C3.30	PT	E-2M-2	L
623800	2RSS*P21A-WS-1	PUMP SUPPORT NO. 1 - SEISMIC LUG	2	F-A	F1.40P	VT-3	E-2M-2	C
623900	2RSS*P21A-WS-2	PUMP SUPPORT NO. 2 - SEISMIC LUG	2	F-A	F1.40P	VT-3	E-2M-2	c
624000	2RSS*P21A-WS-3	PUMP SUPPORT NO. 3	2	F-A	F1.40P	VT-3	E-2M-2	С
640693	2SIS-PSSH330Y	SUPPORT	2	F-A	F1.20S	VT-3	108102-1	c
641650	2SIS-PSST682A	SUPPORT	2	F-A	F1.200	VT-3	108102-1	c
642150	2SIS-PSST682B	SUPPORT	2	F-A	F1.20T	VT-3	108103-5	c
646100	2SIS-047-F-06	BUTT WELD	2	R-A	R1.11	UT	108104-6	с L
646400	2SIS-047-F-07	BUTT WELD	2	R-A	R1.11	UT	108104-6	
649970	SIS-036B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108105-5	B
662950	SIS-037B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108109-5	B
667400	2SIS-011-F500	BUTT WELD	2	R-A	R1.11	UT	108109-5	
674350	SIS-065B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108110-4	с В
674900	2SIS-PSR017	SUPPORT	2	F-A	F1.20R	VT-3	108307-4	
676100	2SIS-PSR012	SUPPORT	2	F-A	F1.20R	VT-3		С
676650	SIS-064B	RI-ISI SEGMENT	2	R-A	R1.12	VT-3 VT-2	108307-4	C
680200	2SIS-PSR083Y	SUPPORT	2	F-A	F1.20R	VT-2 VT-3	108310-4	В
681370	SIS-062B	RI-ISI SEGMENT	2	R-A	R1.12	VT-2	108311-4	C
681600	2SIS-PSR020	SUPPORT	2	F-A	F1.20R	VT-2 VT-3	410-548	В
685100	2SIS-PSR049	SUPPORT	2	F-A	F1.20R	VT-3 VT-3	108311-4	С
685200	2SIS-005-2-B	BUTT WELD	2	R-A	R1.11	UT	108346-4	С
692300	2SIS-PSR064	SUPPORT	2	F-A	F1.20R	VT-3	108346-4	С
697200	2SIS-PSA004	SUPPORT	2	F-A	F1.20R	VT-3 VT-3	108347-4	С
697210	2SIS-094-F-803	WELDED ATT FOR 2SIS-PSA004	2	C-C	C3.20	PT	108350-4	С
697700	2SIS-PSR002	SUPPORT	2	F-A	F1.20R	VT-3	108350-4	С
715200	2SIS-PSR137Y	SUPPORT	2	F-A	F1.20R	VT-3	108350-4	С
717070	SIS-060B	RI-ISI SEGMENT	2	R-A	R1.12	VT-3 VT-2	109931-4	C
720500	2SIS-PSR155	SUPPORT	2	F-A	F1.20R	VT-3	109932-4	В
722600	2SIS-PSST159	SUPPORT	2	F-A F-A			109933-4	с
725100	2SIS-102-3A1D	BUTT WELD	2	г-А R-А	F1.20T	VT-3	109934-4	с
727050	SIS-081A	RI-ISI SEGMENT	2	R-A R-A	R1.11	UT	109935-4	C
728150	SIS-080A	RI-ISI SEGMENT	2	R-A R-A	R1.12 R1.12	VT-2	110140-4	В
732250	SIS-079A	RI-ISI SEGMENT	2	R-A R-A		VT-2	110141-4	В
			2	11-74	R1.12	VT-2	110144-4	В

735100 2SIS-PSR039R SUPPORT 2 FA F1.20R VT-3 110155-4 c 736700 2SIS-PSR232X SUPPORT 2 F-A F1.20R VT-3 110155-4 c 741100 2SIS-PSR232X SUPPORT 2 F-A F1.20R VT-3 110155-4 c 75100 SIS-DS6A RI-ISI SEGMENT 2 R-A R112 VT-2 110276-4 B 75100 SIS-D11-F04 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 765000 2SIS-PSR030 SUPPORT 2 R-A R1.11 UT 1107124-4 c 766100 2SIS-PSR037B SUPPORT 2 R-A R1.11 UT 1107129-4 c 768100 2SIS-PSR038 SUPPORT 2 F-A F1.20A VT-3 1107130-4 c 778100 2SIS-PSR039 SUPPORT 2 F-A F1.20A VT-3 1107130-4 c 773850 SIS-O70B RLSIS EGMENT 2 F-A F1.20A		Component_ID	Description	Class	Category	ltem	Method	lso	Statua
736/00 2SIS-PSR422 SUPPORT 2 F.A. F120A VT.3 110165-4 C 761300 SIS-PSR42 SUPPORT 2 F.A. F120A VT.3 110165-4 C 761300 SIS-PSR42 SUPPORT 2 F.A. F120A VT.3 110165-4 C 761300 SIS-PSR42 BUTT WELD 2 R.A. R1.12 VT.2 110274-4 B 758100 SIS-PSR030 SUPPORT 2 R.A. R1.11 UT 1107124-4 C 763100 SIS-PSR030 SUPPORT 2 R.A. R1.11 UT 1107124-4 C 766100 SIS-PSR039 SUPPORT 2 F.A. F1.20R VT.3 1107130-4 C 770100 SIS-PSR039 SUPPORT 2 F.A. F1.20R VT.3 1107130-4 C 773850 SIS-O72B R1+SI SEGMENT 2 F.A. F1.20R VT.3 110713-4 C 773850 SIS-072B R1+SI SEGMENT 2 R.A. R1.12	735100	2SIS-PSR089R	SUPPORT						Status
14/1100 2SIS-FS8042 SUPPORT 2 F.A F120R VT.3 110174.4 c 750350 SIS-056A RI-SIS SEGMENT 2 R.A R1.12 VT.2 110274.4 B 751470 SIS-056B RI-SIS SEGMENT 2 R.A R1.12 VT.2 110274.4 B 769100 2SIS-510-61 BUTT WELD 2 R.A R1.11 UT 1107124.4 c 765000 2SIS-510-61 BUTT WELD 2 R.A R1.11 UT 1107124.4 c 767400 2SIS-595037B SUPPORT 2 F.A F120R VT.3 1107129.4 c 768100 2SIS-595037B SUPPORT 2 F.A F120R VT.3 1107130.4 c 777850 SIS-070B RI-SI SEGMENT 2 F.A F120R VT.3 110713.4 c 773850 SIS-070B RI-SI SEGMENT 2 F.A F120R VT.3 110774.4 B 781300 ZSIS-PSR371X SUPPORT 2 F.A F120			SUPPORT				-		-
70300 SiS-056A RI-ISI SEGMENT 2 R-A R1.12 VT-2 110255-4 B 751470 SiS-056B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110255-4 B 758900 2SIS-011-F04 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 763100 2SIS-911-F04 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 763000 2SIS-PST037B BUTPORT 2 F-A F1.20A VT-3 1107129-4 c 76400 2SIS-PST037B SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 778500 2SIS-PSR038A SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 7775050 SIS-070B RI-ISI SEGMENT 2 F-A F1.20A VT-3 1107130-4 c 778505 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110774-4 B 781300 2SIS-09F803 WELDED ATT FOR 2SIS-PSR371X 2			SUPPORT				-		
751470 SIS-0568 RI-ISI SEGMENT 2 R-A R1.12 VT-2 11023-4 B 759100 SIS-11.2A BUTT WELD 2 R-A R1.11 UT 1107124-4 c 769000 SIS-511.F04 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 765000 SIS-505.011-F01 BUTT WELD 2 R-A R1.11 UT 1107126-4 c 766000 SIS-595037B SUPPORT 2 F-A F1.207 VT-3 1107130-4 c 768100 SIS-598036A SUPPORT 2 F-A F1.208 VT-3 1107130-4 c 778500 SIS-598039 SUPPORT 2 F-A F1.208 VT-3 1107130-4 c 773850 SIS-072B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110734-4 B 781400 SIS-5987371X SUPPORT 2 R-A R1.12 VT-2 110734-4 c 781400 SIS-099-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C <td></td> <td></td> <td>RI-ISI SEGMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			RI-ISI SEGMENT						
759900 251S-11-2A BUTT WELD 2 R-A R1.11 UT 1107124-4 c 769900 251S-011-F04 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 765000 251S-010-F01 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 765000 251S-010-F01 BUTT WELD 2 R-A R1.11 UT 1107129-4 c 768100 251S-PSR38A SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 778100 251S-PSR39 SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 777850 S1S-0708 RI-S1S SEGMENT 2 R-A R1.12 VT-2 110773-4 B 781400 251S-098-F803 WELDED ATT FOR 251S-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 251S-098-F803 WELDED ATT FOR 251S-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 251S-098-F805 WELDED ATT FOR 251S-PSR371X <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
758000 2SIS-011-F04 BUTT WELD 2 R-A R1.11 UT 1107124-4 c 763100 2SIS-PSA30 SUPPORT 2 R-A R1.11 UT 1107126-4 c 767400 2SIS-PSA30 SUPPORT 2 R-A R1.11 UT 1107126-4 c 767400 2SIS-PSR33BA SUPPORT 2 F-A F1.20T VT-3 1107130-4 c 768100 2SIS-PSR33BA SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 777850 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110774-4 B 773850 SIS-072B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110774-4 B 781400 2SIS-09-F802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-09-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-09-F805 WELDED ATT FOR 2SIS-PSR371X			BUTT WELD						
763100 2SIS-PSA030 SUPPORT 2 FA F1.10 O1 110/124-4 c 765000 2SIS-010-F01 BUTT WELD 2 FA F1.20A VT-3 1107129-4 c 767400 2SIS-PSR038A SUPPORT 2 FA F1.20T VT-3 1107129-4 c 768100 2SIS-PSR038A SUPPORT 2 FA F1.20R VT-3 1107130-4 c 778100 2SIS-PSR039 SUPPORT 2 FA F1.20R VT-3 1107130-4 c 773850 SIS-0708 RI-ISI SEGMENT 2 FA F1.20R VT-3 1107131-4 C 773850 SIS-0708 RI-ISI SEGMENT 2 FA F1.20R VT-2 110793-4 C 781300 2SIS-098-R03 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 C 781600 2SIS-009-R04 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 C 781600 2SIS-009-R05 WELDED ATT FOR 2SIS-PSR371X <td></td> <td></td> <td>BUTT WELD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			BUTT WELD						
765000 2SIS-010-F01 BUTT WELD 2 FA F1.11 UT 1107129-4 c 767400 2SIS-PSR037B SUPPORT 2 F-A F1.20R VT-3 1107129-4 c 768100 2SIS-PSR038A SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 778100 2SIS-PSR039 SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 773850 SIS-070B RI-ISI SEGMENT 2 F-A F1.20R VT-3 1107130-4 c 781300 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110773-4 B 781300 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-3 110793-4 c 781400 SIS-079.6803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781500 SIS-09.6804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 SIS-00.9F805 WELDED ATT FOR 2SIS-PSR3									-
767400 2SIS-PSST037B SUPPORT 2 F.A. F1.11 OT 1107129.4 c 768100 2SIS-PSR038A SUPPORT 2 F.A. F1.20R VT-3 1107129.4 c 768100 2SIS-PSR039 SUPPORT 2 F.A. F1.20R VT-3 1107130.4 c 770100 2SIS-PSR039 SUPPORT 2 F.A. F1.20R VT-3 1107130.4 c 773850 SIS-070B RI-ISI SEGMENT 2 F.A. F1.20R VT-3 110713.4 c 781300 2SIS-PSR371X SUPPORT 2 R.A. R1.12 VT-2 110775.4 B 781400 2SIS-09-F802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781600 2SIS-09-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781700 2SIS-09-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781800 2SIS-09-F806 WELDED									
768100 2SIS-PSR038A SUPPORT 2 F-A F1.207 V1-3 110/129-4 c 768300 2SIS-PSR039 SUPPORT 2 F-A F1.20R VT-3 110/130-4 c 770100 2SIS-PSR039 SUPPORT 2 F-A F1.20R VT-3 110/130-4 c 773850 SIS-070B RI-ISI SEGMENT 2 F-A F1.20R VT-2 110/74-4 B 775350 SIS-072B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110/75-4 B 781300 2SIS-PSR371X SUPPORT 2 R-A R1.12 VT-2 110/79-4 C 781500 2SIS-099-F802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110/793-4 C 781600 2SIS-099-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110/793-4 C 781700 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110/793-4 C 781800 2SIS-009-F806 WEL	767400	2SIS-PSST037B							С
768300 2SIS-PSR039 SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 770100 2SIS-PSA220 SUPPORT 2 F-A F1.20R VT-3 1107130-4 c 773850 SIS-070B RI-ISI SEGMENT 2 F-A F1.20R VT-3 1107131-4 c 773850 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110774-4 B 781300 2SIS-098-7802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-009-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 <t< td=""><td>768100</td><td>2SIS-PSR038A</td><td></td><td></td><td></td><td></td><td></td><td></td><td>С</td></t<>	768100	2SIS-PSR038A							С
770100 2SIS-PSA220 SUPPORT 2 F-A F1.20K VT-3 110/130.4 c 773850 SIS-070B RI-ISI SEGMENT 2 F.A F1.20K VT-3 110/130.4 c 773850 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110775.4 B 781300 2SIS-09-F802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781600 2SIS-09-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781700 2SIS-009-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781800 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 782000 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793.4 c 7821	768300	2SIS-PSR039							С
773850 SIS-070B RI-ISI SEGMENT 2 R-A R1.12 VT-3 110/131-44 C 775350 SIS-072B RI-ISI SEGMENT 2 R-A R1.12 VT-2 110/734-4 B 781300 2SIS-PSR371X SUPPORT 2 R-A R1.12 VT-2 110/734-4 B 781400 2SIS-009-F802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-009-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 7	770100	2SIS-PSA220							С
775350 SIS-072B RI-ISI SEGMENT 2 R-A R1.12 VT-2 1107/4.4 B 781300 2SIS-PSR371X SUPPORT 2 R-A R1.12 VT-3 110793-4 c 781400 2SIS-099-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-009-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-09-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 7	773850	SIS-070B							
781300 2SIS-PSR371X SUPPORT 2 RA R1.12 VT-2 110775-4 B 781400 2SIS-099-F802 WELDED ATT FOR 2SIS-PSR371X 2 F-A F1.20R VT-3 110793-4 c 781500 2SIS-099-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-099-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-099-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-099-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-099-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-099-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-099-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c	775350	SIS-072B							В
781400 2SIS-009-F802 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781500 2SIS-009-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-009-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 78770 SIS-056C RI-ISI SEGMENT 2 C-C C3.20 PT 110793-4 c	781300								В
781500 2SIS-009-F803 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781600 2SIS-009-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-009-F809 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-PSR237S SUPPORT 2 R-A R1.12 VT-2 110798-4 B	781400						-		С
781600 2SIS-009-F804 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781700 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 78100 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 787770 SIS-056C RI-SIS EGMENT 2 R-A R1.12 VT-2 110793-4 c 790900 2SIS-PSR237S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 R-A R1.11 UT 1107176-0D c 788000	781500								С
781700 2SIS-009-F805 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-09-F809 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 78770 SIS-056C RI-ISI SEGMENT 2 R-A R1.12 VT-2 110798-4 B 799000 2SIS-PSR237S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 F-A F1.20R VT-3 100203-5 c 79820	781600		WELDED ATT FOR 2010-POR3/1X						С
781800 2SIS-009-F806 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 781900 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-009-F809 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 78770 SIS-056C RI-ISI SEGMENT 2 R-A R1.12 VT-2 110798-4 B 790900 2SIS-PSR237S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 F-A F1.20R VT-3 100203-5 c 798200 2SVS-PSR019 SUPPORT 2 F-A F1.20R VT-3 100204-5 c 806400 2SVS-PSSH661 SUPPORT 2 F-A F1.20R VT-3 100217-5 c 808950 2CCP+PS14-CS-1,-2 </td <td>781700</td> <td></td> <td>WELDED ATT FOR 2010-POR3/ 1A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>С</td>	781700		WELDED ATT FOR 2010-POR3/ 1A						С
781900 2SIS-009-F807 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 787770 SIS-056C RI-ISI SEGMENT 2 C-C C3.20 PT 110793-4 c 790900 2SIS-PSR237S SUPPORT 2 R-A R1.12 VT-2 110798-4 B 791200 2SIS-PSR256S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 R-A R1.11 UT 110716-0D c 798200 2SVS-PSR019 SUPPORT 2 F-A F1.20R VT-3 100204-5 c 806400 2SVS-PSSH661 SUPPORT 2 F-A F1.20S VT-3 100217-5 c 817900 2CCP+PS1B-CS-1,-2 PUMP SUP	781800								С
782000 2SIS-009-F808 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 782100 2SIS-009-F809 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 787770 SIS-056C RI-ISI SEGMENT 2 R-A R1.12 VT-2 110798-4 B 790900 2SIS-PSR237S SUPPORT 2 R-A R1.12 VT-2 110798-4 B 791200 2SIS-PSR256S SUPPORT 2 R-A R1.12 VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 F-A F1.20R VT-3 1107176-0D c 795800 2SVS-PSR019 SUPPORT 2 R-A R1.11 UT 1107176-0D c 798200 2SVS-044-F502 BUTT WELD 2 N/A B.E.Z. UT 100203-5 c 806400 2SVS-PSS1661 SUPPORT 2 F-A F1.20S VT-3 100217-5 c 817900 2CCP+PS18-CS-1,-2 PUMP SUPPORTS	781900								С
782100 2SIS-009-F809 WELDED ATT FOR 2SIS-PSR371X 2 C-C C3.20 PT 110793-4 c 787770 SIS-056C RI-ISI SEGMENT 2 R-A R1.12 VT-2 110798-4 B 790900 2SIS-PSR237S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 791200 2SIS-PSR256S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 F-A F1.20R VT-3 11107176-0D c 798200 2SVS-PSR019 SUPPORT 2 F-A F1.20R VT-3 100203-5 c 806400 2SVS-PSSH661 SUPPORT 2 F-A F1.20S VT-3 100204-5 c 808950 2CCP+PS1B-CS-1,-2 PUMP SUPPORTS 3 F-A F1.40P VT-3 E-3J-1 c 817900 2CCP-PSST094Y SUPPORT 3 F-A F1.30T VT-3 107210-3 c 819400 2CCP-PSR104 SUPPORT 3	782000								С
787770 SIS-056C RI-ISI SEGMENT 2 C-C C3.20 PT 110793-4 c 790900 2SIS-PSR237S SUPPORT 2 R-A R1.12 VT-2 110798-4 B 791200 2SIS-PSR256S SUPPORT 2 F-A F1.20R VT-3 111104-4 c 792080 2IAC-049-F513 BUTT WELD 2 R-A R1.11 UT 1107176-0D c 798200 2SVS-PSR019 SUPPORT 2 F-A F1.20R VT-3 100203-5 c 806400 2SVS-PSSH661 SUPPORT 2 F-A F1.20S VT-3 100204-5 c 808950 2CCP*P21B-CS-1,-2 PUMP SUPPORTS 3 F-A F1.40P VT-3 E-3J-1 c 818900 2CCP-PSR104Y SUPPORT 3 F-A F1.30T VT-3 107210-3 c 819400 2CCP-PSR104 SUPPORT 3 F-A F1.30R VT-3 107210-3 c 820800 2CCP-PSR089 SUPPORT 3 F-A	782100		WELDED ATT FOR 2010 DOD274X						С
7909002SIS-PSR237SSUPPORT2R-AR1.12VT-2110798-4B7912002SIS-PSR256SSUPPORT2F-AF1.20RVT-3111104-4c7920802IAC-049-F513BUTT WELD2R-AR1.11UT1107176-0Dc7958002SVS-PSR019SUPPORT2F-AF1.20RVT-3100203-5c7982002SVS-044-F502BUTT WELD2N/AB.E.Z.UT100204-5c8064002SVS-PSSH661SUPPORT2F-AF1.20SVT-3100217-5c8089502CCP*P21B-CS-1,-2PUMP SUPPORTS3F-AF1.40PVT-3E-3J-1c8189002CCP-PSR112SUPPORT3F-AF1.30TVT-3107210-3c8194002CCP-PSR104SUPPORT3F-AF1.30RVT-3107210-3c8208002CCP-PSR089SUPPORT3F-AF1.30RVT-3107211-3c	787770		PLISECMENT					110793-4	С
7912002SIS-PSR256SSUPPORT2F-AF1.20RVT-3111104-4c7920802IAC-049-F513BUTT WELD2F-AF1.20RVT-3111104-4c7958002SVS-PSR019SUPPORT2R-AR1.11UT1107176-0Dc7982002SVS-044-F502BUTT WELD2F-AF1.20RVT-3100203-5c8064002SVS-PSSH661SUPPORT2F-AF1.20SVT-3100204-5c8089502CCP*P21B-CS-1,-2PUMP SUPPORTS3F-AF1.40PVT-3E-3J-1c8179002CCP-PSST094YSUPPORT3F-AF1.30TVT-3107210-3c8194002CCP-PSR112SUPPORT3F-AF1.30RVT-3107210-3c8208002CCP-PSR089SUPPORT3F-AF1.30RVT-3107210-3c								110798-4	В
7920802IAC-049-F513BUTT WELD2F-AF1.20RVT-3111104-4c7958002SVS-PSR019SUPPORT2R-AR1.11UT1107176-0Dc7982002SVS-044-F502BUTT WELD2F-AF1.20RVT-3100203-5c8064002SVS-PSSH661SUPPORT2N/AB.E.Z.UT100204-5c8089502CCP*P21B-CS-1,-2PUMP SUPPORTS3F-AF1.40PVT-3E-3J-1c8189002CCP-PSST094YSUPPORT3F-AF1.30TVT-3107210-3c8189002CCP-PSR112SUPPORT3F-AF1.30RVT-3107210-3c8194002CCP-PSR104SUPPORT3F-AF1.30RVT-3107210-3c8208002CCP-PSR089SUPPORT3F-AF1.30RVT-3107210-3c							-	111104-4	С
7958002SVS-PSR019SUPPORT2R-AR1.11UT1107176-0Dc7982002SVS-044-F502BUTT WELD2F-AF1.20RVT-3100203-5c8064002SVS-PSSH661SUPPORT2N/AB.E.Z.UT100204-5c8089502CCP*P21B-CS-1,-2PUMP SUPPORTS3F-AF1.20SVT-3100217-5c8189002CCP-PSST094YSUPPORT3F-AF1.30TVT-3107210-3c8189002CCP-PSR112SUPPORT3F-AF1.30RVT-3107210-3c8194002CCP-PSR104SUPPORT3F-AF1.30RVT-3107210-3c8208002CCP-PSR089SUPPORT3F-AF1.30RVT-3107211-3c								111104-4	С
7982002SVS-044-F502BUTT WELD2F-AF1.20RVT-3100203-5c8064002SVS-PSSH661SUPPORT2N/AB.E.Z.UT100204-5c8089502CCP*P21B-CS-1,-2PUMP SUPPORTS2F-AF1.20SVT-3100217-5c8179002CCP-PSST094YSUPPORT3F-AF1.40PVT-3E-3J-1c8189002CCP-PSR112SUPPORT3F-AF1.30TVT-3107210-3c8194002CCP-PSR104SUPPORT3F-AF1.30RVT-3107210-3c8208002CCP-PSR089SUPPORT3F-AF1.30RVT-3107211-3c							UT	1107176-0D	С
806400 2SVS-PSSH661 SUPPORT 2 N/A B.E.Z. UT 100204-5 c 808950 2CCP*P21B-CS-1,-2 PUMP SUPPORTS 2 F-A F1.20S VT-3 100217-5 c 817900 2CCP-PSST094Y SUPPORT 3 F-A F1.40P VT-3 E-3J-1 c 818900 2CCP-PSR112 SUPPORT 3 F-A F1.30T VT-3 107210-3 c 819400 2CCP-PSR104 SUPPORT 3 F-A F1.30R VT-3 107210-3 c 820800 2CCP-PSR089 SUPPORT 3 F-A F1.30R VT-3 107211-3 c						F1.20R	VT-3	100203-5	С
808950 2CCP*P21B-CS-1,-2 PUMP SUPPORTS 2 F-A F1.20S VT-3 100217-5 c 817900 2CCP-PSST094Y SUPPORT 3 F-A F1.40P VT-3 E-3J-1 c 818900 2CCP-PSR112 SUPPORT 3 F-A F1.30T VT-3 107210-3 c 819400 2CCP-PSR104 SUPPORT 3 F-A F1.30R VT-3 107210-3 c 820800 2CCP-PSR089 SUPPORT 3 F-A F1.30R VT-3 107211-3 c						B.E.Z.	UT	100204-5	с
817900 2CCP-PSST094Y SUPPORT 3 F-A F1.40P VT-3 E-3J-1 c 818900 2CCP-PSR112 SUPPORT 3 F-A F1.30T VT-3 107210-3 c 819400 2CCP-PSR104 SUPPORT 3 F-A F1.30R VT-3 107210-3 c 820800 2CCP-PSR089 SUPPORT 3 F-A F1.30R VT-3 107211-3 c						F1.20S	VT-3	100217-5	с
818900 2CCP-PSR112 SUPPORT 3 F-A F1.30T VT-3 107210-3 c 819400 2CCP-PSR104 SUPPORT 3 F-A F1.30R VT-3 107210-3 c 820800 2CCP-PSR089 SUPPORT 3 F-A F1.30R VT-3 107210-3 c						F1.40P	VT-3	E-3J-1	С
819400 2CCP-PSR104 SUPPORT 3 F-A F1.30R VT-3 107210-3 c 820800 2CCP-PSR089 SUPPORT 3 F-A F1.30R VT-3 107211-3 c						F1.30T	VT-3		
820800 2CCP-PSR089 SUPPORT 3 F-A F1.30R VT-3 107211-3 c						F1.30R	VT-3		
						F1.30R	VT-3		
	520000		SUPPORI	3	F-A	F1.30R	VT-3		

Sum_No	Component_ID	Description	Class	Category	ltem	Method	le e	04-4
824300	2CCP-PSR008	SUPPORT	3	F-A			lso	Status
831400	2CCP-PSR058	SUPPORT	3	F-A F-A	F1.30R	VT-3	107216-2	С
834600	2CCP-PSR081	SUPPORT	3	F-A F-A	F1.30R	VT-3	107221-2	С
844200	2CCP-PSR438X	SUPPORT	3	г-А F-А	F1.30R	VT-3	107226-2	С
854700	2CCP-PSR048	SUPPORT	3	г-А F-А	F1.30R	VT-3	110710-3	С
860640	2FNC-PSSH178	SUPPORT	3	F-A F-A	F1.30R	VT-3	120722-2	С
860641	2FNC-004-F-800	WELDED ATT FOR 2FNC-PSSH178	3	г-А D-А	F1.30S	VT-3	107707-2	С
860642	2FNC-004-F-801	WELDED ATT FOR 2FNC-PSSH178	3	D-A D-A	D1.20	VT-1	107707-2	С
860643	2FNC-004-F-802	WELDED ATT FOR 2FNC-PSSH178	3		D1.20	VT-1	107707-2	С
860644	2FNC-004-F-803	WELDED ATT FOR 2FNC-PSSH178	3	D-A	D1.20	VT-1	107707-2	С
860680	2FNC-PSR161	SUPPORT	3 3	D-A	D1.20	VT-1	107707-2	С
862100	2FWE-PSR059Y	SUPPORT	-	F-A	F1.30R	VT-3	107708-1	С
862800	2FWE-PSR024Y	SUPPORT	3	F-A	F1.30R	VT-3	101602-3	С
864350	2FWE*P22-CS-1 TO CS-4	PUMP SUPPORTS	3	F-A	F1.30R	VT-3	101604-3	С
868850	2FWE*P23B-CS-1 TO CS-4	PUMP SUPPORTS	3	F-A	F1.40P	VT-3	E-3K-1	С
873100	2FWE-PSST349X	SUPPORT	3	F-A	F1.40P	VT-3	E-3K-1	С
873322	2FWE-PSSH017	SUPPORT	3	F-A	F1.30T	VT-3	101625-2	С
873323	2FWE-108-F-804	WELDED ATT FOR 2FWE-PSSH017	3	F-A	F1.20S	VT-3	101707-3	С
873324	2FWE-108-F-805	WELDED ATT FOR 2FWE-PSSH017 WELDED ATT FOR 2FWE-PSSH017	3	D-A	D1.20	VT-1	101707-3	С
873325	2FWE-108-F-806	WELDED ATT FOR 2FWE-PSSH017 WELDED ATT FOR 2FWE-PSSH017	3	D-A	D1.20	VT-1	101707-3	С
873326	2FWE-108-F-807	WELDED ATT FOR 2FWE-PSSH017 WELDED ATT FOR 2FWE-PSSH017	3	D-A	D1.20	VT-1	101707-3	С
873331	2FWE-PSR012A	SUPPORT	3	D-A	D1.20	VT-1	101707-3	С
873341	2FWE-PSR021	SUPPORT	3	F-A	F1.20R	VT-3	101707-3	С
873346	2FWE-PSA028	SUPPORT	3	F-A	F1.20R	VT-3	101708-3	С
873361	2FWE-PSR340X	SUPPORT	3	F-A	F1.20A	VT-3	101708-3	С
873365	2FWE-PSST362X	SUPPORT	3	F-A	F1.20R	VT-3	101617-2	С
873367	2FWE-PSR053Y	SUPPORT	3	F-A	F1.20T	VT-3	101618-2	С
873371	2FWE-PSR048Y	SUPPORT	3	F-A	F1.20R	VT-3	101618-2	С
874100	2FWE-PSR004C	SUPPORT	3	F-A	F1.20R	VT-3	101619-2	С
874900	2FWE-PSA002C	SUPPORT	3	F-A	F1.30R	VT-3	520043-1	с
875500	2HVC*REF24A-SPT-1	SUPPORT	3	F-A	F1.30A	VT-3	520147-1	С
875600	2HVC*REF24A-W-1	INTEGRAL ATTACHMENT	3	F-A	F1.40E	VT-3		С
876900	2HVC-PSR007	SUPPORT	3	D-A	D1.10	VT-1		С
877500	2MSS-PSST491	SUPPORT	3	F-A	F1.30R	VT-3	173901-2	С
879952	2SWS*P21A-MS-1	PUMP SUPPORT	3	F-A	F1.30T	VT-3	101614-2	С
879954	2SWS*P21A-MS-2	PUMP SUPPORT	3	F-A	F1.40P	VT-3	E-3L-1	С
			3	F-A	F1.40P	VT-3	E-3L-1	С

<u>Sum_No</u>	Component_ID	Description	Class	Category	ltem	Method	lso	Ctatura
880100	2SWS-PSSH760A	SUPPORT	3	F-A	F1.30S	VT-3		Status
881100	2SWS-PSR023	SUPPORT	3	F-A	F1.30R	VT-3	100403-2	С
884100	2SWS-PSR004	SUPPORT	3	F-A		•••	101902-2	С
885400	2SWS-PSA140	SUPPORT	3		F1.30R	VT-3	101906-2	С
885500	2SWS-188-F-504	WELDED ATT FOR 2SWS-PSA140	3	F-A	F1.30A	VT-3	101908-2	с
886700	2SWS-PSA139	SUPPORT	3	D-A	D1.20	VT-1	101908-2	С
886800	2SWS-185-F-504	WELDED ATT FOR 2SWS-PSA139	-	F-A	F1.30A	VT-3	101909-2	С
889400	2SWS-PSR076	SUPPORT	3	D-A	D1.20	VT-1	101909-2	С
889900	2SWS-PSA072	SUPPORT	3	F-A	F1.30R	VT-3	101912-2	С
890000	2SWS-201-F-517		3	F-A	F1.30A	VT-3	101912-2	с
894600	2SWS-PSR130Y	WELDED ATT FOR 2SWS-PSA072 SUPPORT	3	D-A	D1.20	VT-1	101912-2	С
895600	2SWS-PSR123Y		3	F-A	F1.30R	VT-3	101921-2	С
907000	2SWS-PSR210	SUPPORT	3	F-A	F1.30R	VT-3	101922-2	С
907100	2SWS-188-F-803	SUPPORT	3	F-A	F1.30R	VT-3	109915-2	с
907200	2SWS-188-F-804	WELDED ATT FOR 2SWS-PSR210	3	D-A	D1.20	VT-1	109915-2	с
907300	-	WELDED ATT FOR 2SWS-PSR210	3	D-A	D1.20	VT-1	109915-2	c
907300 907400	2SWS-188-F-806	WELDED ATT FOR 2SWS-PSR210	3	D-A	D1.20	VT-1	109915-2	c
907400 927900	2SWS-188-F-812	WELDED ATT FOR 2SWS-PSR210	3	D-A	D1.20	VT-1	109915-2	c
	2SWS-PSST657T	SUPPORT	3	F-A	F1.30T	VT-3	120731-2	c
928000	2SWS-PSR656T	SUPPORT	3	F-A	F1.30R	VT-3	120731-2	c
931000	2SWS-R283	SUPPORT	3	F-A	F1.30H	VT-3	311002-2	c
932700	RC PUMP MOTOR LIFT RIG	LIFT RIG	1	N/A	NR0612	MT		c
999985	2CNMT-BLDFLG	FUEL CANAL BLIND FLANGE BOLTING	MC	E-A	E1.11	VT-1		B
999986	2CNMT-EQUHATCH	EQUIPMENT HATCH BOLTING	MC	E-A	E1.11	VT-1		B
								U

STATUS LEGEND:

c = Complete, for code credit

B = Complete, mutliple examinations in Interval E = Complete, extra, no code credit

L = Limited examination

APPENDIX II

REPAIR-REPLACEMENT ABSTRACT AND NIS-2 FORMS

NIS-2 ABSTRACT

FORM NO.	FUNCTIONAL LOCATION	ORDER NO.	<u>COMMENTS</u>
3109	2MSS-SV101A	200249111, 55107889	Installed
3110	2MSS-SV102A	200249112, 55107889	Installed
3111	2MSS-SV103A	200249113	Installed
3112	2MSS-SV104A	200249114	Installed
3113	2MSS-SV105A	200249115, 55107889	Installed
3176	2-CHS-150-670-2	200174665	Corrected
3176	2-CHS-150-687-2	200174665	Corrected
3317	2CHS-152	200413166	Corrected
3424	2SSR-RV134	200451462	Installed
3439	2SIS-366	200457431	Corrected
3514	2SWS-692	200504119	Corrected
3517	2SWS-MOV102A	200418384	Installed
3744	2CHS-50	200518568	Corrected
3745	2CHS-54	200568664	Corrected
3804	2RCS-SG21A	47553320	Corrected
3805	2RCS-SG21B	47553320	Corrected
3806	2RCS-SG21C	47553320	Corrected
3811	2-FWE-006-007-3	200585202, 200585206	Corrected
3811	2-FWE-003-174-3	200585202, 200585206	Installed
3811	2FWE-384	200585202, 200585206	Installed
3811	2SIS-PSR790	200585202, 200585206	Corrected
3811	2SIS-PSR791	200585202, 200585206	Corrected
3811	2FWE-PSR471	200585202, 200585206	Installed
3812	2-FWE-003-219-3	200584748	Corrected
3812	2FWE-382	200584748	Installed
3816	2-FWE-006-004-3	200585204	Corrected
3816	2-FWE-004-184-3	200585204	Installed
3816	2FWE-387	200585204	Installed
3833	2-CHS-003-041-3	200591497	Corrected
3833	2CHS-102	200591497	Installed
3834	2-CHS-003-042-3	200591498	Corrected
3834	2-CHS-002-046-3	200591498	Installed
3834	2CHS-105	200591498	Installed
3836	2RHS-E21B	200607932	Corrected
3837	2RHS-E21A	200607933	Corrected
3838	2SIS-319	200450831	Corrected
3839	2QSS-PSSP138Y	200613933	Installed
3841	2SWS-MOV103A	200539066	Installed
3844	2SWS-188	200242782	Installed
3845	2SWS-185	200539622	Installed
3846	2SWS-MOV116A	200555096	Installed
3851	2RSS-PSSP465X	200613934	Installed
3852	2FWS-PSSP002A	200613893	Installed
3853	2FWS-PSSP002B	200613894	Installed
3854	2FWS-PSSP003A	200613895	Installed

NIS-2 ABSTRACT

	•		
FORM NO.	FUNCTIONAL LOCATION	<u>ORDER NO.</u>	<u>COMMENTS</u>
3855	2FWS-PSSP003B	200613896	Installed
3856	2FWS-PSSP006	200613897	Installed
3857	2FWS-PSSP012	200613898	Installed
3862	2SWS-106	200607563	Installed
3865	2-SWS-008-779-3	200584749	Corrected
3865	2-SWS-006-780-3	200584749	Installed
3865	2SWS-733	200584749	Installed
3865	2SWS-734	200584749	Installed
3865	2-SWS-006-781-3	200584749	Installed
3865	2SWS-741	200584749	Installed
3865	2SWS-742	200584749	Installed
3865	2SWS-PSR1230	200584749	Installed
3865	2SWS-PSR1231	200584749	Installed
3865	2SWS-PSR1232	200584749	Installed
3867	2-SWS-020-114-3	200585208	Corrected
3867	2-SWS-008-922-3	200585208	Installed
3867	2-SWS-006-923-3	200585208	Installed
3867	2SWS-332	200585208	Installed
3867	2SWS-333	200585208	Installed
3867	2-SWS-006-926-3	200585208	Installed
3867	2SWS-334	200585208	Installed
3867	2SWS-335	200585208	Installed
3867	2SWS-PSR1233	200585208	Installed
3867	2SWS-PSR1234	200585208	Installed
3867	2SWS-PSR1235	200585208	Installed
3869	2-SWS-004-192-3	200625314	Corrected
3871	2-FNC-002-128-3	200585209	Corrected
3871	2-FNC-002-184-3	200585209	Installed
3871	2FNC-200	200585209	Installed
3872	2-SWS-003-052-3	200630254	Corrected
3872	2-SWS-004-044-3	200630254	Corrected
3876	2RSS-E21C	200459075	Corrected
3877	2SIS-66	200655260	Corrected
3879	2RCS-REV21	200655277	Corrected
3883	2-EGS-150-016-3	200468198	Corrected
3883	2-EGS-150-017-3	200468198	Corrected
3886	2CHS-E24	200663970	Corrected
3887	2RCS-RV551C	200465407	Installed

F	ORM NIS-2 O			REPAIRS/REPL		MENT ACT	IVITY
NOP-CC-5703-0	2 Rev. 02		1 1041310113			t Number 3109	
1. Owner <u>Fi</u>	rstEnergy Nuclea	Operating Comp	any	Date <u>10/28/2015</u>			
76 South	Main Street – Akr (ADDRESS)	on, OH 44308	-	Sheet1			
2. Plant	Beaver Valley F	ower Station (BV	PS)			<u> </u>	
<u>P.O. Box 4</u>	A Shippingport, P. (ADDRESS)	A 15077		Order Nos. Repair/Replacement	200249 nt Organizati	0111, 551078	89 etc.
3. Work Perfo	ormed By <u>BVPS</u>	Construction Serv	ices	Type Code Symbo	l Stamp	DN//	A
<u>P.O. Box 4</u>	, Shippingport, P/ (ADDRESS)	15077		Authorization No.			
4. Identificatio	on of System <u>M</u>	ain Steam (Class	2)	Expiration Date		<u>N/A</u>	
5. (a) Applicable (b) Applicab (c) Applicab	e Construction Code	Section III I Utilized for Repair/Ro se(s): N/A	<u>1971</u> Edition,	<u>S'73</u> Addenda, Code C ctivity <u>2001E-2003A</u>	ase <u>—</u>		
		J			Ţ.	<u> </u>	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	Other	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Safety Valve	Crosby Valve	N57636-00-0001	718	2MSS-SV101A	1977	Removed	Yes
Safety Valve	Crosby Valve	N57636-00-0002	719	2MSS-SV101A	1977	Installed	Yes
Disc Insert	Crosby Valve	N91124-34-0083	N/A	N/A	1977	Removed	Yes
Disc Insert	Crosby Valve	N91124-64-0377	N/A	N/A	1987	Installed	Yes
1-3/8" Nut	Nova Machine	N/A	N/A	Trace #14M4	2015	Installed	No
7. Description	of Work <u>Replace</u>	I valve and nuts w	vith spare.		·		
8. Tests Condu	Other [matic* 🗌	Nominal Operating	g Pressi t Temp.		empt [] °F

FORM NIS-2 OWNER'S REPORT FOR F As Required by the Provisions of	CEPAIRS/REPLACEMENT ACTIVITY
NOP-CC-5703-02 Rev. 02	Report Number 3109
9. Remarks Code Data Report for replacement valve attache	d to previous NIS-2 Data Report No. 2078 No Code
9. Remarks <u>Code Data Report for replacement valve attache</u> Applicable Manufacturer's Data Re Data Report available for nuts. Disc insert was replaced by C	ports to be attached
Data Report available for huts. Disc insert was replaced by c	
Data Report attached.	
CERTIFICATE OF	COMPLIANCE
I certify that the statements made in the report are correct and Code, Section XI.	that this conforms to the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u>	Expiration DateN/A
Signed Thomas White	Engineer V Date <u>December 4</u> , 20 <u>15</u>
Owner or Owner's Designee, Title	
CERTIFICATE OF INSE	National Board of Boiler and Pressure Vessel Inspectors
and employed by <u>HSB Global Standards</u> of <u>Har</u> described in this Owner's Report during the period <u>5</u>	$\frac{1010}{2}, \frac{1}{2}$
and state that to the best of my knowledge and belief, the Ow measures described in this Owner's Report in accordance wit	ner has performed examinations and taken corrective
By signing this certificate neither the inspector nor his employ concerning the examinations and corrective measures describ inspector nor his employer shall be liable in any manner for an kind arising from or connected with this inspection.	bed in this Owner's Report. Furthermore, neither the
Dean S. hund Inspector's Signature	ion <u>NB9428 ANTB</u> National Board Number and Endorsement
Date, 20 <u>/ 5</u>	

CROSE		BRENTHAM, MI	Form 1	2
	血液 经合计资本管 伊莱克子	HOLDERS DATA REPORT F		
As Re	autient for the Provisions	of the ASME Code, Section III, I d One Day's Production	Division 1 Pallet	1
1. Manufactured and contributility	Crosby Valve & (Gage Company, 43 Kendric	ck St. Wrentham, MA	<u>0</u> 20
# Manufactured for Duques	ne Light Co., Pitt	tsburgh PA		-
		nit 1, Shippingport, PA.		-
S. Location of instantion	ASTM-A182 F316	84.100	1987	_
6. Type <u>DS-C-57636</u>	(ton't spec 40)	84,100	Contraction and Million and Mi	
S. ASME Code, Section RI	<u>1971 Summ</u>	entral article	(Caste Caber No)	*
6 Fabricated in accordance wit	Gonsi. Spec. (Div. 2 only) _		Date	-
7. Remerts <u>N/A</u>				-
7. Remerks N/A				
6. Nom, thickness (in.)	Min, design thickness (in.) _ lokkers' date reports are alla	Dia. 10 (tl. & in.) Lo sched for each item of this report:	angth overall (ft. & in.)	-
8. Norn. thickness (in.) 9. When opplicable, Certificate I Port or Appurtenance Serial Humber	Min. design thickness (in.) _ tolders' date reports are atta National Board No. In Numerical Order	Dia. ID (tl. & in.) Lo sched for each item of this report: Port or Appurtenance Sertal Number	National Board Number In Numerical Order	-
9. When applicable, Certificate f Part or Appurtanence Serial Number	National Board No.	Port or Appurtenance Serial Number	National Board Number	-
9. When applicable, Certificate f Part or Appurtenance Serial Humber (1) <u>N91124-64-0377</u> (2)	National Board No.	Port or Appurtenance Serial Number	National Board Number	
9. When applicable, Certificate f Part or Appurtenance Serial Humber (1) N91124-64-0377 (2) (3)	National Board No.	Port or Appurtenance Serial Number (26) (27) (28) (29)	National Board Number	
9. When applicable, Certificate f Part or Appurtenance Serial Humber (1) <u>N91124-64-0377</u> (2)	National Board No.	Port or Appurtenance (26) (27) (28) (29)	National Board Number	
9. When applicable, Certificate I Part or Appurtanence Serial Number (1) N91124-64-0377 (2)	National Board No.	Port or Appurtenance Serial Number (26) (27) (28) (29)	National Board Number	
When applicable, Certificate t Part or Appurtenance Serial Humber (1) N91124-64-0377 (2) (3) (4) (5)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (30) (31) (33)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Serial Humber (1) N91124-64-0377 (2)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (31)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Serial Humber (1) N91124-64-0377 (2)	National Board No.	Port or Appurtenance Seriel Number (26) (27) (28) (29) (31) (32) (33) (34) (35) (36)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Bertel Humber (1) N91124-64-0377 (2) (3) (4) (5) (6) (7) (8) (9) (10)	National Board No.	Pert or Appurtenance (26)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Beriel Humber (1) N91124-64-0377 (2) (3) (4) (5) (7) (8) (9) (10) (11)	National Board No.	Port or Appurtenance Serial Number (26) (27) (28) (29) (31) (32) (33) (34) (35) (37) (38) (39)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Bertel Humber (1) N91124-64-0377 (2) (3) (4) (5) (6) (7) (8) (9) (10)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (31) (32) (33) (34) (35) (36) (37) (32) (33) (34) (35) (36) (37) (39) (40)	National Board Number	
9. When applicable, Certificate I Pipri or Appurtenance Berial Number (1) N91124-64-0377 (2)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (31) (32) (33) (34) (35) (36) (37) (38) (39) (31) (35) (36) (37) (38) (39) (40)	National Board Number	
9. When applicable, Certificate I Pipri or Appurtenance Serial Number (1) N91124-64-0377 (2)	National Board No.	Port or Appurtenance (26)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Serial Humber (1) N91124-64-0377 (2) (3) (4) (5) (7) (8) (9) (10) (11) (12) (13) (14) (15) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (40) (41) (42) (44)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Bertel Humber (1) N91124-64-0377 (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (10) (11) (12) (13) (14) (15) (16) (17) (18) (16) (17) (18) (19) (19)	National Board No.	Port or Appurtenance (26)	National Board Number	
9. When applicable, Certificate I Part or Appurtenance Serial Humber (1) N91124-64-0377 (2) (3) (4) (5) (7) (8) (9) (10) (11) (12) (13) (14) (15) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (19) (20) (21)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (31) (32) (33) (34) (35) (36) (37) (38) (37) (38) (37) (38) (37) (37) (37) (37) (37) (37) (36) (37) (38) (40) (41) (42) (43) (44) (45) (46) (47)	National Board Number	
9. When applicable, Certificate I Pipri or Appurtenance Berial Number (1) N91124-64-0377 (2)	National Board No.	Port or Appurtenance Serial Number (26) (27) (28) (29) (31) (32) (33) (34) (35) (36) (37) (38) (40) (41) (42) (43) (44) (45) (44) (45) (44) (45) (44) (45) (46) (47) (48)	National Board Number	
9. When applicable, Certificate I Port or Appurtenance Serial Number (1) <u>N91124-64-0377</u> (2)	National Board No.	Port or Appurtenance (26) (27) (28) (29) (31) (32) (33) (34) (35) (36) (37) (38) (37) (38) (37) (38) (37) (37) (37) (37) (37) (37) (36) (37) (38) (40) (41) (42) (43) (44) (45) (46) (47)	National Board Number	

Form N-2

1. N. C.

FORM H-1 (Hest)

Mr. Sorial Mp. _____

	CERTIFICATE OF DEE	NOR	
Design epechlications continue by	Partho Ravsicar	P. E. statoPANeg. no282	246
Parally and the second of sume of a	faters application		
Design report* certified by	inter sprinkisi		
******	CERTIFICATE OF BHOP COM	HPLIANCE	
		Disc Insert	
We certify that the statements made conform to the rules of construction	e in this report are correct and that this (that in of the ASME Code, Section 13).	***	
NPT Certificate of Authorization	N-1877	Expires9/30/89	
		<i>- / /</i>	
Date 9-11-87 Heme	Crosby Valve & Gage Co.	_ Signod _ f.f.d.d.l	
	CERTIFICATE OF SHOP INS	PECTION	
	nomination leaved by the National Boord of	f Solier and Prossure Vessel Inspectors and the state o	r p ro
I the undersigned, holding a valid of			
Massachusetts	Arkwright Mutual	Insurance Company	
Ince of Massachusetts and e	employed by <u>Arkwright Mutual</u> specied these Hems described in this date	Insurance Company report on <u>SEPT. 11, 1987</u> and state that to	o tha
ince of <u>Massachusetts</u> and e of <u>Norwood</u> , <u>MA</u> have ins best of my knowledge and bellet, th	employed by <u>Arkwright Mutual</u> specied these Hems described in this dete w Certificate Holder has fabricated these p	Insurance Company report on <u>SEPT 11, 1987</u> and state that the parts or appurtenances in accordance with the ASME C	o tha Socia,
Ince of <u>Massachusetts</u> and e of <u>Norwood</u> , <u>MA</u> have in best of my knowlodge and bellet, th Section Hi Each part listed has bee	employed by <u>Arkwright Mutual</u> specied these here described in this data se Certificate Holder has fabricated these p in outhorized for stamping on the data show	Insurance Company report on <u>SEPT 11,1987</u> and state that the parts or appurtenances in accordance with the ASME C own above.	2009,
ince of Massachusetts and e or Norwood, MA have ina best of my knowledge and bellet, th Section HI. Each part listed has bee By staning this confilirate, neither t	employed by <u>Arkwright Mutual</u> specied these here described in this data to Certificate Holder has fabricated these p in outhorized for stamping on the date show the inspector nor his employer makes any t	Insurance Company report on <u>SEPT</u> <u>1987</u> and state that the parts or appurtenances in accordance with the ASME C with above. warranty, expressed or implied, concerning the equip	nent
ince of <u>Massachusetts</u> and e or <u>Norwood</u> , <u>MA</u> have ins best of my knowledge and bollet, ih Section III. Each part listed has bee By signing this cortificate, neither t described in this data seport. Furthe	employed by <u>Arkwright Mutual</u> specied these items described in this data the Certificate Holder has fabricated these p in outhorized for stamping on the date shot the inspector nor his employer makes any u semana, neither the inspector nor his employ	Insurance Company is report on <u>SEPT</u> . <u>1987</u> , and state that it parts or appurtonances in accordance with the ASME C warranty, expressed or implied, concerning the equip over shall be Hable in any manner for any personal logu	nent ny er
ince of <u>Massachusetts</u> and e or <u>Norwood</u> , <u>MA</u> have ins best of my knowledge and bollet, ih Section III. Each part listed has bee By signing this cortificate, neither t described in this data seport. Furthe	employed by <u>Arkwright Mutual</u> specied these items described in this data the Certificate Holder has fabricated these p in outhorized for stamping on the date shot the inspector nor his employer makes any u semana, neither the inspector nor his employ	Insurance Company report on <u>SEPT</u> <u>1987</u> and state that the parts or appurtenances in accordance with the ASME C with above. warranty, expressed or implied, concerning the equip	nent ny er
ince of <u>Massachusetts</u> and e or <u>Norwood</u> , <u>MA</u> have ins best of my knowledge and bollet, ih Section III. Each part listed has bee By signing this cortificate, neither t described in this data seport. Furthe	employed by <u>Arkwright Mutual</u> specied these items described in this data the Certificate Holder has fabricated these p in outhorized for stamping on the date shot the inspector nor his employer makes any u semana, neither the inspector nor his employ	Insurance Company is report on <u>SEPT</u> . <u>1987</u> , and state that it parts or appurtonances in accordance with the ASME C warranty, expressed or implied, concerning the equip over shall be Hable in any manner for any personal logu	2005, ment 17 97 24 24

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A A SAME A S

	-ORM NIS-2 O	WNER'S REP As Required by th	ORT FOR the Provisions	of the ASME Code S	LACE ection X		ΓΙνιτγ
NOP-CC-5703	-02 Rev. 02					rt Number 3110	
1. Owner <u>F</u>	irstEnergy Nuclea	ar Operating Com	pany	Date <u>10/28/2015</u>			
76 South	Main Street – Ak	ron, OH 44308	_	Sheet	1	of 1	
2. Plant	Beaver Valley	Power Station (BV	<u>/PS)</u>	Unit No		2	
<u>P.O. Box</u>	4, Shippingport, F (ADDRESS)	PA 15077		Order Nos. Repair/Replaceme	200249 ant Organiza	9112, 551078 tion P.O. No., Job No.	89
3. Work Perl	formed By <u>BVPS</u>	Construction Ser	<u>vices</u>	Type Code Symbo	ol Stam	p <u>N/</u>	<u>'A</u>
<u>P.O. Box 4</u>	4, Shippingport, P (ADDRESS)	<u>A 15077</u>		Authorization No.			
1. Identificati	on of System <u>N</u>	lain Steam (Class	2)	Expiration Date		<u>N/A</u>	
(b) Applicat (c) Applicat	le Construction Code ole Edition of Section X ole Section XI Code Ca on of Components	KI Utilized for Repair/R ase(s): N/A	<u>1971 E</u> dition, <u>s</u> eplacement Ac	<u>S'73</u> Addenda, Code C xivity <u>2001E-2003A</u>	Case <u></u>	·	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
afety Valve	Crosby Valve	N57636-00-0004	737	2MSS-SV102A	1977	Removed	Yes
afety Valve	Crosby Valve	N57636-00-0005	738	2MSS-SV102A	1977	Installed	Yes
Disc Insert	Crosby Valve	N91124-34-0091	N/A	N/A	1977	Removed	No
Disc Insert	Crosby Valve	N91124-79-0416	N/A	Ht. No. C/C:E2LF	2011	Installed	No
-3/8" Nut	Nova Machine	N/A	N/A	Trace #14M4	2015	Installed	No
Description	of Work <u>Replaced</u>	valve with spare	and nuts.			·····	
Tests Condu	Other 🗌		natic* 🗌	Nominal Operating psi Test		re 🛛 Ex	empt [] °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number 3110
9. Remarks Code Data Report for replacement valve attached to previous NIS-2 Data Report No. 2079. No Code Applicable Manufacturer's Data Reports to be attached
Data Report available for nuts. Disc insert was replaced by Crosby Valve under purchase Order 55107889.
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A
Signed <u>Thomas White</u> <u>Hubb</u> <u>Engineer V</u> Date <u>October 29th</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-24-14$</u> to <u>$10-29-15$</u> ,
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dean S. Juk Commission <u>JB9428 ANTB</u> Inspector's Signature National Board Number and Endorsement
Date $10-29-$, 20 15^{-}

1. Owner <u>FirstEnergy Nuclear Operating Company</u> (NAME) <u>76 South Main Street – Akron, OH 44308</u> (ADDRESS)				Date <u>11/04/2015</u>		rt Number <u>3111</u>		
				Sheet				
2. Plant	Beaver Valley	Power Station (BV	<u>(PS)</u>	Unit No		2		
<u>P.O. Box</u>	4, Shippingport, F (ADDRESS)	PA 15077		Orde Repair/Replaceme	Nos. 2	00249113	, etc.	
3. Work Performed By <u>BVPS Construction Services</u>				Type Code Symbol Stamp <u>N/A</u>				
<u>P.O. Box /</u>	4, Shippingport, P (ADDRESS)	A 15077	1	Authorization NoN/A				
4. Identificati	on of System <u>N</u>	lain Steam (Class		Expiration Date	<u> </u>	N/A		
(b) Applicat (c) Applicat	le Construction Code ole Edition of Section > ole Section XI Code Ca on of Components	(I Utilized for Repair/R ase(s): N/A	<u>1971</u> Edition, <u>S</u> eplacement Act	<u>'73</u> Addenda, Code C ivity <u>2001E-2003A</u>	ase <u></u>			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Safety Valve	Crosby Valve	N57636-00-0007	743	2MSS-SV103A	1977	Removed	Yes	
afety Valve	Crosby Valve	N57636-00-0008	740	2MSS-SV103A	1977	installed	Yes	
1-3/8" Nut	Nova Machine	N/A	N/A	Trace Code: 15SO	2015	Installed	No	
Description of	of Work <u>Replaced</u>	valve and nuts.					· · · · · · · · · · · · · · · · · · ·	

D 00 5702 02 Day 02	Report Number <u>3111</u>
DP-CC-5703-02 Rev. 02	
Remarks Code Data Report for replacement valve attac	ched to previous NIS-2 Data Report No. 2080. No Code
ata Report available for nuts.	
	· · · · · · · · · · · · · · · · · · ·
	OF COMPLIANCE
ertify that the statements made in the report are correct a	and that this conforms to the requirements of the ASME
pe Code Symbol Stamp <u>N/A</u>	
	Expiration Date N/A
ertificate of Authorization No. <u>N/A</u>	
	Engineer V Date <u>November 4th</u> , 20 <u>15</u>
gned <u>Thomas White</u> Owner or Owner's Designee, Title	Lingineer V Date Hovember 4-, 20 10-
CERTIFICATE OF INS	SERVICE INSPECTION
the undersigned, holding a valid commission issued by th	ne National Board of Boiler and Pressure Vessel Inspecto
d employed by <u>HSB Global Standards</u> of <u>H</u>	Hartford, CT have inspected the components
scribed in this Owner's Report during the period	5 - 24 - 14 to <u>10 - 30 - 15</u>
d state that to the best of my knowledge and belief, the C	Owner has performed examinations and taken corrective
easures described in this Owner's Report in accordance	with the requirements of the ASME Code, Section XI.
signing this certificate neither the inspector nor his employed	loyer makes any warranty, expressed or implied,
ncerning the examinations and corrective measures des	cribed in this Owner's Report. Furthermore, neither the
spector nor his employer shall be liable in any manner for	r any personal injury or property damage or a loss of any
nd arising from or connected with this inspection.	
0 0 0 0 0 0 0 0 0 0	
Dean J. J. Comm Inspector's Signature	hission <u>NB9428 ANTB</u> National Board Number and Endorsement
mappent a digitatore	
ate, 20 $\frac{75^{-1}}{100}$	

	-02 Rev. 02				Reno	t Number 3112		
1. Owner FirstEnergy Nuclear Operating Company				Date <u>10/28/2015</u>				
76 South	n Main Street – Ak (ADDRESS)	ron, OH 44308	_	Sheet	1	of 1		
2. Plant <u>Beaver Valley Power Station (BVPS)</u>						2		
	(NAME)		<u>PS)</u>					
P.O. Box 4, Shippingport, PA 15077 (ADDRESS)			[-	Order Nos. 200249114 Repair/Replacement Organization P.O. No., Job No., etc.				
3. Work Performed By <u>BVPS Construction Services</u>			<u>vices</u>	Type Code Symbol StampN/A				
<u>P.O. Box</u>	4, Shippingport, P	A 15077	A	Authorization No.				
			E	Expiration Date N/A				
		lain Steam (Class			<u> </u>			
(b) Applical	le Construction Code ble Edition of Section X ble Section XI Code Ca	Section III (I Utilized for Repair/Re	<u>1971</u> Edition, <u>S'7</u> eplacement Activ	<u>73</u> Addenda, Code C vity <u>2001E-2003A</u>	ase <u></u>			
(-)		13C(3). IN/A						
. Identification	on of Components	i						
Name of	on of Components Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed		
,	Name of	Manufacturer	Board			Removed, or	ASME Code Stampe (Yes or No) Yes	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Identification	Built	Removed, or Installed	Code Stampe (Yes or No)	
Name of Component afety Valve afety Valve	Name of Manufacturer Crosby Valve	Manufacturer Serial No. N57636-00-0010	Board No. 743	Identification 2MSS-SV104A	Built 1977	Removed, or Installed Removed	Code Stampe (Yes or No) Yes	
Name of Component afety Valve	Name of Manufacturer Crosby Valve Crosby Valve	Manufacturer Serial No. N57636-00-0010 N57636-00-0011	Board No. 743 744	Identification 2MSS-SV104A 2MSS-SV104A Trace Code:	Built 1977 1977	Removed, or Installed Removed Installed	Code Stampe (Yes or No) Yes Yes	
Name of Component afety Valve afety Valve	Name of Manufacturer Crosby Valve Crosby Valve	Manufacturer Serial No. N57636-00-0010 N57636-00-0011	Board No. 743 744	Identification 2MSS-SV104A 2MSS-SV104A Trace Code:	Built 1977 1977	Removed, or Installed Removed Installed	Code Stampe (Yes or No) Yes Yes	
Name of Component afety Valve afety Valve	Name of Manufacturer Crosby Valve Crosby Valve Nova Machine	Manufacturer Serial No. N57636-00-0010 N57636-00-0011 N/A	Board No. 743 744 N/A	Identification 2MSS-SV104A 2MSS-SV104A Trace Code:	Built 1977 1977	Removed, or Installed Removed Installed	Code Stampe (Yes or No) Yes Yes	
Name of Component afety Valve afety Valve	Name of Manufacturer Crosby Valve Crosby Valve Nova Machine	Manufacturer Serial No. N57636-00-0010 N57636-00-0011	Board No. 743 744 N/A	Identification 2MSS-SV104A 2MSS-SV104A Trace Code:	Built 1977 1977	Removed, or Installed Removed Installed	Code Stamper (Yes or No) Yes Yes	

FORM NIS-2 OWNER'S REPORT FO As Required by the Provision	DR REPAIRS/REPLACEMENT ACTIVITY ons of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02	Report Number 3112
Applicable Manufacturer's	tached to previous NIS-2 Data Report No. 2081. No Code Data Reports to be attached
Data Report available for nuts.	
CERTIFICATE	OF COMPLIANCE
certify that the statements made in the report are correc Code, Section XI.	ct and that this conforms to the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u>	Expiration Date <u>N/A</u>
Signed <u>Thomas White</u> Owner or Owner's Designee, Title	Engineer V Date <u>October 29th</u> , 20 <u>15</u>
CERTIFICATE OF I	NSERVICE INSPECTION
, the undersigned, holding a valid commission issued by and employed by <u>HSB Global Standards</u> of described in this Owner's Report during the period	the National Board of Boiler and Pressure Vessel Inspectors Hartford, CT have inspected the components $5^{-2}4^{-4}4^{-4}$ to $4^{0}-3^{0}-4^{-4}$
ind state that to the best of my knowledge and belief, the	e Owner has performed examinations and taken corrective ce with the requirements of the ASME Code, Section XI.
nspector nor his employer shall be liable in any manner kind arising from or connected with this inspection.	nployer makes any warranty, expressed or implied, escribed in this Owner's Report. Furthermore, neither the for any personal injury or property damage or a loss of any mission <u>NB9428 ANTB</u> National Board Number and Endorsement
Inspector Signature Date, 20 _/ <u>、</u>	National Board Number and Endorsement

	-02 Rev. 02				Reno	rt Number 3113	1	
1. Owner FirstEnergy Nuclear Operating Company				Date 11/4/2015				
76 Sout	h Main Street – Ak	ron, OH 44308		Sheet	1	of 1		
(ADDRESS)						2		
2. Plant	Beaver Valley	Power Station (B)	<u>/PS)</u>					
<u>P.O. Box</u>	4, Shippingport, F (ADDRESS)	PA 15077		Order Nos. Repair/Replaceme	200249	9115, 551078 lion P.O. No., Job No.	389	
3. Work Per	formed By <u>BVPS</u>	Construction Ser	vices	Type Code Symbo	ol Stam	p <u>N</u>	/A	
P.O. Box	4, Shippingport, P	A 15077	/	Authorization No.		N/A		
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Expiration DateN/A				
. Identificati	ion of System <u>N</u>	lain Steam (Class	2)					
(c) Applicat	ble Edition of Section > ble Section XI Code Ca On of Components	ase(s): N/A	Replacement Acti	vity <u>2001E-2003A</u>				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed		
Component			Board			Removed, or	ASME	
Component afety Valve	Manufacturer	Serial No.	Board No.	Identification	Built	Removed, or Installed	ASME Code Stamped (Yes or No)	
Component afety Valve afety Valve	Manufacturer Crosby Valve	Serial No. N57636-00-0013	Board No. 746	Identification 2MSS-SV105A	Built 1977	Removed, or Installed Removed	ASME Code Stamped (Yes or No) Yes	
Name of Component afety Valve afety Valve Disc Insert	Manufacturer Crosby Valve Crosby Valve	Serial No. N57636-00-0013 N57636-00-0014	Board No. 746 747	Identification 2MSS-SV105A 2MSS-SV105A	Built 1977 1977	Removed, or Installed Removed Installed	ASME Code Stamped (Yes or No) Yes Yes	
Component afety Valve afety Valve Disc Insert	Manufacturer Crosby Valve Crosby Valve Crosby Valve	Serial No. N57636-00-0013 N57636-00-0014 N91124-35-0095	Board No. 746 747 N/A	Identification 2MSS-SV105A 2MSS-SV105A N/A Ht. No.	Built 1977 1977 1977	Removed, or Installed Removed Installed Removed	ASME Code Stamped (Yes or No) Yes Yes No	
Component afety Valve afety Valve Disc Insert Disc Insert	Manufacturer Crosby Valve Crosby Valve Crosby Valve Crosby Valve	Serial No. N57636-00-0013 N57636-00-0014 N91124-35-0095 N91124-79-0417 N/A	Board No. 746 747 N/A N/A	Identification 2MSS-SV105A 2MSS-SV105A N/A Ht. No. C/C:E2LF	Built 1977 1977 1977 2011	Removed, or Installed Removed Installed Removed Installed	ASME Code Stamped (Yes or No) Yes Yes No No	

OD CC 5702 02 Boy 02	Report Number 3113
OP-CC-5703-02 Rev. 02	
. Remarks Code Data Report for replacement valve a	attached to previous NIS-2 Data Report No. 2082. No Code
bata Report available for nuts. Disc insert was replace	ed by Crosby Valve under purchase Order 55107889.
CERTIFICAT	E OF COMPLIANCE
certify that the statements made in the report are corr code, Section XI.	rect and that this conforms to the requirements of the ASME
ype Code Symbol Stamp <u>N/A</u>	
ertificate of Authorization No. <u>N/A</u>	Expiration Date <u>N/A</u>
(n < a)	
igned Thomas White	Engineer V Date <u>November 4th</u> , 20 <u>15</u>
Owner or Owner's Designee, Title	
CERTIFICATE OF	INSERVICE INSPECTION
the undersigned holding a valid commission issued l	by the National Board of Boiler and Pressure Vessel Inspecto
	Hartford, CT have inspected the components
escribed in this Owner's Report during the period	5-24-14 to 10-30-15
nd state that to the best of my knowledge and belief, t	the Owner has performed examinations and taken corrective
neasures described in this Owner's Report in accordance	nce with the requirements of the ASME Code, Section XI.
	and the environty every or implied
y signing this certificate neither the inspector nor his e	
	described in this Owner's Report. Furthermore, neither the er for any personal injury or property damage or a loss of any
spector nor his employer shall be liable in any manne ind arising from or connected with this inspection.	
	ommission NB 9428 ANTB
Inspector's Signature	National Board Number and Endorsement
ate, 20 _//	

I	FORM NIS-2 C	WNER'S REF	PORT FOR	REPAIRS/REP	PLACE Section X		ΤΙVITY			
NOP-CC-5703	-02 Rev. 02					ort Number 3176	3			
1. Owner <u>F</u>	1. Owner FirstEnergy Nuclear Operating Co.				Date <u>11-6-2015</u>					
76 South Main Street – Akron, OH 44308 (ADDRESS)				Sheet	1	of1	1			
2. Plant <u>Beaver Valley Power Station (BVPS)</u>				Unit No		#2				
<u>PO Box 4</u>	PO Box 4, Shippingport, PA 15077 (ADDRESS)				Order # 200174665 Repair/Replacement Organization P.O. No., Job No., etc.					
3. Work Per	3. Work Performed By <u>BVPS Construction Services</u>				ol Stam	p <u>N</u>	//A			
PO Box 4	PO Box 4, Shippingport, PA 15077 (ADDRESS)				Authorization NoN/A					
			1	Expiration Date		<u>N/A</u>				
4. Identificati	ion of System (Chemical and Volu	ume Control	<u>System, BV-2-07-8</u>	System	(Class 2)				
(b) Applical (c) Applical		ase(s): <u>N/A</u>		ition, <u>1971</u> Addenda stivity <u>2001 Edition to 2</u>	a, <u>W'72</u> 1003 Adde	Code Case <u>N/A</u> nda	<u>y</u>			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)			
Pipe Line	Stone & Webster	N/A	N/A	Pipe Line 2- CHS-150- 670-2	1987	Corrected	No			
Pipe Cap, SS, 1.5"			N/A	Heat #246543	2009	Installed	No			
Pipe Line	Stone & Webster	N/A	N/A	Pipe Line 2- CHS-150- 687-2	1987	Corrected	No			
Relief Valve	Crosby Valve	N66785-00- 0008	1026	2CHS- RV450B	1984	Removed	Yes			
Blind Flange, SS, 1.5"	Newman Flange & Fitting	N/A	N/A	Heat # G-572	2009	Installed	No			

FOR	MNIS-2 OW	NER'S REPO	RT FOR RE	PAIRS/REPLA ASME Code Sect	ACEM		VITY
NOP-CC-5703-02 Re						lumber <u>3176</u>	
	Nova Machine Products	N/A	N/A	Heat # 49990-0016	2000	Installed	No
7. Description of RV450B was ren	f Work <u>Pipe line</u> noved from pipe	2-CHS-150-670 line 2-CHS-150-	-2 was cut and 687-2 and a bl	a pipe cap was i nd flange was in	nstallec stalled.	I. Relief valv	<u>e 2CHS-</u>
8. Tests Conduc	Other [—	umatic* 🔲 N	lominal Operating psi Tes		ure 🛛 E	xempt [_] °F
9. Remarks <u>Piping Isometric 2806.258-920-727 (410-312) shows pipe line 2-CHS-150-670-2 (item #1), pipe line 2-CHS-150-687-2 (item #6), and relief valve 2SCH-RV450B as item 34. The N5 Code Data Report for this valve and piping is part of System 07 package 15 (ID: 2-SR-07-15-CHS). N5 Code Data Report is on Film Number S1403 and starts on slide #778. Prior NIS-2 report for 2CHS-RV450B is #017. Applicable Manufacturer's Data Reports to be attached</u>							this valve and
I certify that the s Code, Section X Type Code Syml	Ι.	e in the report are	ICATE OF CO	OMPLIANCE this conforms	to the r	equirements	of the ASME
Certificate of Aut Signed <u>Thomas</u> Owr		N/A neer III Designee, Title	Home M al	Expiration Date		N/A <u>w 6</u> , 2	
I, the undersigne and employed by described in this and state that to measures descri	y <u>HSB Glob</u> Owner's Report the best of my k	d commission iss <u>pal Standards</u> during the period nowledge and be	sued by the Nat of <u>Hartfor</u> d d <u>S</u> elief, the Owner	<u>d, CT <i>入 </i></u>	oiler and _ have _ to examina	<i>- ۵ د ۱</i> ۵ مtions and tal	e components /, ken corrective
By signing this concerning the expector nor his kind arising from	examinations and employer shall or connected w	d corrective meas be liable in any n ith this inspectior	sures describec nanner for any n.	l in this Owner's	Report. r proper	Furthermore ty damage o	e, neither the r a loss of any

F	ORM NIS-2 O	WNER'S REPO As Required by th	ORT FOR e Provisions	REPAIRS/REP		MENT ACT	Ίνιτγ
NOP-CC-5703-0	2 Rev. 02					t Number 3317	
1. Owner <u>Fi</u>	rstEnergy Nuclea	r Operating Comp	bany	Date <u>11/6/2015</u>			
76 South	Main Street – Ak	ron, OH 44308	-	Sheet	1	of 2	New
2. Plant	Beaver Valley F	Power Station (BV	<u>'PS)</u>	Unit No.		#2	
<u>P.O. Box 4</u>	(NAME) , Shippingport, P (ADDRESS)	A 15077		Orc	ter #20(0413166 ion P.O. No., Job No.,	elc
3. Work Perfo	ormed By <u>BVPS</u>	Mechanical Maint	enance	Type Code Symbo			
<u>P.O. Box 4</u>	, Shippingport, P, (ADDRESS)	<u>A 15077</u>		Authorization No.			
4. Identificatio	on of System C	hemical and Volur		Expiration Date		N/A	
(b) Applicabl (c) Applicabl		l Utilized for Repair/Re se(s): <u>N/A</u>		<u>V'72</u> Addenda, Code C tivity <u>2001E-2003A</u>	Case <u></u>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Kerotest	LA2-16	9440	2CHS-152	1976	Corrected	Yes
Cover	Kerotest	NLG1-5	N/A	N/A	1993	Installed	Yes
. Description c	f Work <u>Replaced</u>	valve cover.				[
					<u></u>		
Tests Conduc	Other 🗌		natic* 🗌	Nominal Operating psi Test		ire 🛛 Ex	empt 🗌 °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/RE As Required by the Provisions of the ASME Code	PLACEMENT ACTIVITY Section XI
NOP-CC-5703-02 Rev. 02	Report Number 3317
9. Remarks <u>Code Data Report for cover attached. Copy of Data Report for</u> Applicable Manufacturer's Data Reports to be attached	valve attached to N-5 #2-SR-7-14-CHS.
CERTIFICATE OF COMPLIANCE	E
I certify that the statements made in the report are correct and that this confo Code, Section XI.	orms to the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u> Expiration I	Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III</u> Cons M Calko Owner or Owner's Designee, Title	Date <u>Nov 6</u> , 20 <u>15</u>
CERTIFICATE OF INSERVICE INSPEC	CTION
I, the undersigned, holding a valid commission issued by the National Board and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5-24-14$</u> and state that to the best of my knowledge and belief, the Owner has perform measures described in this Owner's Report in accordance with the requirem	<pre>have inspected the components to ∠ ♡ -3 ○ -/ 3⁻, med examinations and taken corrective</pre>
By signing this certificate neither the inspector nor his employer makes any concerning the examinations and corrective measures described in this Own inspector nor his employer shall be liable in any manner for any personal injukind arising from or connected with this inspection. $ \underbrace{\text{Deam} \ \text{Jeam} $	her's Report. Furthermore, neither the ury or property damage or a loss of any
Date, 20 /3-	

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	re Provisions of the ASME o Exceed One Day's Produ	Kotion	Pg1 of _1
Menulacures and centres by KEZOLESS MER.	Corp., 2525 Libert	Ave., Pgh. Pa	15222 (C191980)
Manufactured for Duquesne Light Compa			
		CONTRACTOR OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIP	
Location of installation Beaver Valley Powe	er Station, Beaver V	alley Storeroom.	Shippingport BA
Type 9911-2-(1) SA182, F316	75,000	N/A	1993
ting 1, canc. na j	1201000 51101(252)	(CRM)	syber Guili)
ASME Code. Section III:	Winter 1972	1	N/A
	uidenes ener	+CI(968)	ICODE CALE NO I
abricated in accordance with Const. Spec. (Div. 2 or		N/A	Date N/A
	100 1		. Dete

10.

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

Part or Appurtenan Serial Number	ice Nationsi Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) NLG1-5	N/A	(26)	
(2) NLG1-6	N/A	(26)	
(3)		(28)	
· (4)		(29)	فيسترحمها بالمالي المراقبة المتركب المتحر ومستعيد المستكما الم
(5)		(30)	
(6)		(31)	
(7)	1	: (32)	
(8)		! (33)	
(10)		1(34)	
(11)		(35)	
(12)		(36)	
(13)		(37)	
(14)		(38)	<u> </u>
(15)		(39)	<u> </u>
. (16)	\	(40)	
(17)	1	(41)	
(18)	1	(42) (43)	
(19)	1	(44)	
(20)	3	(45)	
(21)		(46)	·
(22)		(47)	
(23)		(48)!	·····
(24)		(49)	
(25)		(50)	
eugn pressure2580			

*Suppremental information in the form of kats, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 2 and 3 on this Data Report In 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, Fairlish, NJ 07007-2300.

FORM N-2 (back)

¥.14.	6 const	No	See	ŇQ.	3

	CERTIFICATION OF DESIGN	
Design specificeuons certified by	N/A	P.E. State N/A Reg. no. N/A
Design report* certified by	N/A	P.E. State <u>N/A</u> Reg. no. <u>N/A</u>
	CERTIFICATE OF SHOP COMPLIAN	iCE
We certify that the statements made in the conformation to the rules of construction of the	- his report are correct and that this (theat) the ASME Code, Section III.	Spare Part Cover
NPT Certificate of Authorization No	1903 Ex	4-25-95 ¹
Date 1/28/93 Name Kerol	Lest Manufacturing Corp. Sign	Here for Storidan
	CERTIFICATE OF SHOP INSPECTIO	DN
Pennsylvania and employed (w Hartford Steam Boiler I&I (Pressure Vessel inspectors and the State or Province of Co.
of <u>Hartford</u> , <u>CT</u> have mape	cted these nems described in this Data Report or	1 - 28.93 and state that to the
pest of my knowledge and belief, the Cen III. Each part issted has been authorized to		Intenances in accordance with the ASME Code, Section
		pressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither t	he wapector por his employer shall be wable in an	ny manner for any personal injury or property damage or
loes of any kind ansing from or connected Date <u>1-28-93</u> Signed <u>- 22</u>	WISH This preparion.	
		1999 4. GU. 1992. gradurativeriti atale ur prov ang ng 1

F	ORM NIS-2 O	WNER'S REPO As Required by the	DRT FOR e Provisions	REPA	AIRS/REP	LACE	MENT ACT	IVITY	
NOP-CC-5703-	02 Rev. 02			Report Number <u>3424</u>					
1. Owner <u>F</u>	irstEnergy Nuclea	r Operating Comp	bany	Date	<u>11/11/2015</u>			······································	
76 South	Main Street – Akr (ADDRESS)	on, OH 44308	-				of2_		
2. Plant	Beaver Valley F	ower Station (BV	PS)				π2		
P.O. Box	4, Shippingport, P. (ADDRESS)	A 15077			Orc Repair/Replaceme	er #200 nt Organizati	451462 ion P.O. No., Job No.,	etc.	
3. Work Perf	3. Work Performed By <u>BVPS Mechanical Maintenance</u>				Type Code Symbol Stamp <u>N/A</u>				
P.O. Box 4, Shippingport, PA 15077 (ADDRESS)				Author	ization No		N/A		
					_		<u>N/A</u>	· ·	
	on of System <u>R</u>						2)	·	
(b) Applicat (c) Applicat	le Construction Code sole Edition of Section X Dele Section XI Code Ca	l Utilized for Repair/R se(s): <u>N/A</u>							
6. Identificatio	on of Components	T	F					T	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other dentification	Year <u>B</u> uilt	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Relief Valve	Dresser Industrial	TG-36571	N/A	2	SSR-RV134	1984	Removed	Yes	
Relief Valve	Farris Engineering	577474-1-KE	N/A	2	SSR-RV134	2014	Installed	Yes	
3/4" Stud	Trust Manufacturing	N/A	N/A	He	eat # 560241	2011	Installed	No	
3/4" Nut	Trust Manufacturing	N/A	N/A	G	Heat # 16375R07	2011	Installed	No	
7. Description	of Work <u>Replaced</u>	valve, studs, and	l nuts.	·······		I			
8. Tests Condu	Other 🗌		matic* 🗌		al Operating si Tesi		ure 🛛 Ex	empt 🗌 ° F	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3424</u>
9. Remarks Valve Code Data Report for new Farris relief valve attached to this NIS-2 report.
Prior NIS-2 reports for old Dresser relief valve are: 249, 1203, 1338. Valve Code Data Report attached to NIS-2 #249, N-2 data report attached to NIS-2 #1203. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas Calko, Engineer III</u> <u>Joma Malka</u> Date <u>Nov 11</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$\int -2 \frac{1}{2} \frac{1}{2}$</u>
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 I. Units Commission NB 9428 ANTE Inspector's Signature National Board Number and Endorsement Date, 20 /J

· ·			ovisions of the					. 1 of _2
1. Manufactured	and certified by Fan	is Engineering Div	ision of Curtiss-Wrigh	It Flow Control Corpor	ation 15 Shaver	Street Brantford	, Ontario C	anada N3T 5T3
2. Manufactured	for First Energy	Beaver	Valley NPP Route		Shippingport	PA	USA	15077
3. Location of ins	tallation Beaver Val	ley Power Station			====;			
			<u> </u>	fname and addres	a) .			
4. Valve	(TRA45-341/S4/SP	Orifice size	F	Nom. inlet size	1 1/2	Outlet	siza	2
		1989		1991		2		
3. ASME CODE, S	ection III, Division 1	(edition)		nda (l'applicable) (date)]	(class			N/A
. Туре	Spring	685 P\$IG	N/S PSI	200 °F		 150 PSIG	1000	68 °F
(spring, pi)	ot, or power operated)	(set pressure)	(blawdown)	(rated temp.)		at at inlet)	·	
. Identification	577474-1-KE			26952x11 REV	В	N/A		2014
	(Cent. Holder's serial no.) (CRIN)	(drewing no.)		(National Bd. no.)		(year built)
. Control ring set	ttings <u>N/A</u>	·····						
zzle k ring Washers justing Screws Indla ring ting ter kems	N/A 737706-1-96 728908-1-76 7289 736161-1-122 734438-2-102 322206 N/A See Pg. 2	M WATER	<u>S</u>	A 479 TYPE 316 A 479 TYPE 316 A 479 TYPE 316 A 479 TYPE 316 313 Type 316 STAINL A	ESS STEEL		7 7 7 7 7 1 N	I/A 5 5 5 5 30 /A 23/10/2012
Relieving capeci	(steam							(dete)
. Relieving capeci								
• • • • •			CERTERCATION	OF DESIGN				
Remarks	r certified byJ. R	amundi	CERTERCATION		•••		3808050	
Remarks	r certified byJ. R		CERTEFICATION	P.E. State	N		<u>3808050</u> 1000524	
Remarks	r certified byJ. R	un Ahn		P.E. State Q	<u>NC</u>	Reg. no. Reg. no.	1000524	62

* Supplemental information in the form of Bats, skatches, or drawings may be used provided: (1) size is 81/2 × 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.

ANQ3.2.5 Rev 5

FORM NV-1 (Back - Pg. 2. of _2__)

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Certificate Holder's Serial No. _

				VE	
- 3	11	41	4-1	-KE	

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·	CE	RTIFICATE OF INSPECTION	
of ONTARIO of ONTARIO state that to the best of Ill, Division 1. By signing this certification this Data Report. Further	and employed by <u>TECHNICAL STAND</u> have inspector for his employed belief, the Certificate, neither the inspector nor his employed intermore, neither the inspector nor his rising from or connected with this insp	cted the valve described in this Data Report on icate Holder has constructed this valve in accor yer makes any warranty, expressed or implied, s employer shall be liable in any manner for any pection.	Apr. 25, 2014 and relance with the ASME Code, Section concerning the component described
9. Pressure retaining i	tems continued: Seriel No. or Identification	Matti. Spec., Including Type or Grade	Tensile Strength
Body Flange Lap Jo	K-659	8A182 Gr F316/F316L	75
Body Flange Lap Jo	K-659 56457-2-283	8A182 Gr F316/F316L SA-479 TYPE 316	75 75

The above noted items are included in the list of pressure retaining items as referenced on page 1, line item 9, other items:

Apr. 25, 2014 Date

5-**ANI Initials**

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	02 Rev. 02			of the ASME Code Se		rt Number 3439	2
1. Owner <u>F</u> i	irstEnergy Nuclea	ar Operating Co.		Date <u>10-30-2015</u>			
	<u>Main Street – Ak</u> (ADDRESS) Beaver Valley F	ron, OH 44308 Power Station (BV		Sheet Unit No		of2 #2	
<u>PO Box 4,</u>	Shippingport, PA (ADDRESS)	15077		Ord Repair/Replaceme	er # 200 Int Organizat	0457431 ion P.O. No., Job No.,	, etc.
3. Work Perfo	ormed By <u>BVPS</u>	Mechanical Main	tenance	Type Code Symbo	l Stamp	⊳N/	A
<u>PO Box 4,</u>	Shippingport, PA (ADDRESS)	15077		Authorization No.			
(b) Applicabl		a conzeci ici kedali/R					
. Identificatio	le Section XI Code Ca	nse(s): <u>N/A</u>	National	vity 2001 Edition to 20		Corrected, Removed,	ASME
	le Section XI Code Ca	ise(s): <u>N/A</u>		vity 2001 Edition to 20 Other Identification	Year Built	Corrected,	
Identificatio Name of Component	le Section XI Code Ca in of Components Name of	nse(s): <u>N/A</u> Manufacturer	National Board	Other	Year	Corrected, Removed, or	Code Stampe
Identificatio	le Section XI Code Ca in of Components Name of Manufacturer	nse(s): <u>N/A</u> Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	Code Stampe (Yes or No)
Name of Component	le Section XI Code Ca on of Components Name of Manufacturer Kerotest	Manufacturer Serial No. OK-9-3	National Board No. 6081	Other Identification 2SIS-366	Year Built 1975	Corrected, Removed, or Installed Corrected	Code Stamped (Yes or No) Yes
Identificatio	le Section XI Code Ca on of Components Name of <u>Manufacturer</u> Kerotest Flowserve Flowserve	Manufacturer Serial No. OK-9-3 719973 N/A	National Board No. 6081 N/A N/A	Other Identification 2SIS-366 N/A Traceability #	Year Built 1975 2005 2004	Corrected, Removed, or Installed Corrected Installed Installed	Code Stamped (Yes or No) Yes 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. 02 Report Number <u>3439</u>
9. Remarks Code Data Report for the bonnet is attached to this NIS-2 report.
Piping Isometric 2806.258-920-625 (110-676) shows valve 2SIS-366 as item #5. The N5 Code Data Report for this valve is part of System 11 package 07 (ID: 2-SR-11-07-SIS-1). N5 Code Data Report is on Film Number S1407, the valve is identified on slide #95.
Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III</u> for III Color Date <u>Oct 30</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-24-14$</u> to <u>$10-30-15$</u> ,
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective I measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Commission <u>JB9428AJTB</u> Inspector's Signature I
Date 11-4- , 20 15

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		2 CERTIFICATE NUCLEAR PA equired by the Pr Not to Excee	ARTS A OVÍSIO	ND APP(JRTENAN ASME C	NCES [®] ode Sectiv		₽(_\$ Pg. 1 of_2
1.	Manufactured and certified by	Flowserve	Corn	1900 S. Sa	unders St		NC 27602	
2.	Manufactured for First Energy	(Name Corp / PO Box 61(NC_47003	
5.			feme and A	durum of Pund	135907-01	00		
	Location of InstallationFirst Ener	ev Nuclear / Beav	(Namo	CY Nuclean	r Plt. Rout	te 168 Ship	pingport, P	A 15077
	Type: SW-D-9909-(2) Rev. A	SA479 T316		N/2	4	N	/ A	2005
	(drawing no.) ASME Code, Section III, Division 1;	(mai'i. spec. no.)		(lensile siz		(C	RN)	(yeer buill)
	-	1971 (edilion)		Summe	er, 1973 nda dala)		2	N/A
	Fabricated in accordance with Const. Sonly)	pec. (Div. 2	N/A		(ision	N/A	Date	(Code Casa no.) N/A
			(710.)					. IVA
	Remarks: Bonnnet for Kerotest	2" 1500# Globe V	alve					
-						S	ALES ORD	ER: 32441
-	Nom. Thickness (in.) N/A Min	. design thickness		R#4 Dia	. ID (ft & in.)			
	When applicable, Certificate Holder's D	ata Reports are attach	ed for ea	R#4 Dia Ich item of t	. ID (It & In.) his report	<u>N/A</u>	Length over	all (ft & N/A
	Part or Appurtenance	National				Appurtenance		National
	Serial Number	Board No.				al Number		Board No.
、		In Numerical Order		1 _			Ir	Numerical Order
))	719973-3	<u>N/A</u>		(26)				
)	719973-4	<u>N/A</u>	<u> </u>	(27)				
)	/19973-3	N/A	· · · ·	(28)				
)				(29)				
Ś				(30)				
)		·		$\binom{(31)}{(32)}$ -				
. '				(32) (33) -				
)				(33)				
)				(34)				
))				(34)			-	
				(35)				
)).)				(35)				
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				(35) (36) (37)				
				(35) (36) (37) (38) (39) (40)				
				(35) (36) (37) (38) (39) (40) (41)				
				(35) (36) (37) (38) (39) (40) (41) (42)				
				(35) (36) (37) (38) (40) (41) (42) (43)				
				(35) (36) (37) (38) (39) (40) (41) (42) (43) (44)				
				$\begin{array}{c} (35) \\ (36) \\ (37) \\ (38) \\ (39) \\ (40) \\ (41) \\ (42) \\ (43) \\ (44) \\ (45) \\ \end{array}$				
				$\begin{array}{c} (35) \\ (36) \\ (37) \\ (38) \\ (39) \\ (40) \\ (41) \\ (42) \\ (43) \\ (44) \\ (45) \\ (46) \\ \end{array}$				
				$\begin{array}{c} (35) \\ (36) \\ (37) \\ (38) \\ (39) \\ (40) \\ (41) \\ (42) \\ (43) \\ (44) \\ (45) \\ (46) \\ (47) \end{array}$				
				$\begin{array}{c} (35) \\ (36) \\ (37) \\ (38) \\ (39) \\ (40) \\ (41) \\ (42) \\ (43) \\ (44) \\ (45) \\ (46) \\ \end{array}$				

"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 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.

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

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Certificate Holder's Serial Nos. 719973-3 thru 5

CERTIFICATIO	N OF DESIGN	l	
Design specification certified by	P.E. State	Reg. no.	······································
Design Report * certified by	P.E. State	Reg. no.	
CERTIFICATE Of We certify that the statements made in this report are correct and the Conforms to the rules of construction of the ASME Code, Section III	hat this (lhese)	CE	PARTS
NPT Certificate of Authorization N1563 No.		Expires	11/26/2006
Date 2/24/05 Name Flowserve, Corp Signed		(Buthorized representative)	· · · · · · · · · · · · · · · · · · ·
CERTIFICATE O I, the undersigned, holding a valid commission issued by the National Province of <u>North Carolina</u> , and employed by <u>HSB-CT</u> described in this Data Report on <u>2129105</u> , and state the has fabricated these parts or appurtenances in accordance with the ASMI stamping on the date shown above. By signing this certificate, neither the inspector nor his employer in described in this Data Report. Furthermore, neither the inspector nor property damage or loss of any kind arising from or connected with this Date <u>2127105</u> Signed <u>(Authorized Inspector)</u>	I Board of Boiler an of <u>Hartford</u> hat, to the best of E Code, Section I makes any warra or his employer st s inspection.	nd Pressure Vessel Inspect <u>Connecticut</u> have my knowledge and belind II, Division 1. Each part lind anty, expressed or implied hall be liable in any mann mmissions <i>NC/YE/</i>	Inspected these items of, the Certificate Holder isled has been authorized for ed, concerning the equipment

	02 Rev. 01				Repo	rt Number 3514			
1. Owner <u>F</u>	irstEnergy Nuclea	r Operating Co.		Date 02/16/2015					
76 South	Main Street – Akr (ADDRESS)	on, OH 44308		Sheet <u>1</u> of <u>1</u>					
2. Plant	Beaver Valley F	}	Unit No 2						
P.O. Box 4	(NAME) 4.Shippingport, PA (ADDRESS))504119 ion P.O. No., Job No.,	elc			
3. Work Perf	ormed By <u>BVPS</u>	Maintenance (NAME)	· 1	ype Code Symbo					
P.O. Box 4	,Shippingport, PA	15077	م	uthorization No.		N/A			
	(ADDRESS)			xpiration Date					
4. Identificatio	on of System <u>Se</u>	ervice Water (Cla	ss 3)						
(b) Applicab (c) Applicab	e Construction Code <u>A</u> le Edition of Section X le Section XI Code Ca	I Utilized for Repair/R			<u>//A</u>				
. Identificatio	on 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)		
Ball Valve	Anchor-Darling	EZ776-6-2	N/A	2SWS-692	1996	Corrected	Yes		
Ball	Flowserve	N/A	N/A	Ht. #500326 V-78	2000	Installed	No		
			····						
					.m.				
Description (of Work <u>Replaced</u>	valve ball.			tert i sin	· · · · · · · · · · · · · · · · · · ·	· .		
						2 ^{- 1} - 2			
Tests Condu	icted: Hydrosta	tic* 🗌 🛛 Pneun	natic* 🔲 🛛 N	lominal Operating	Pressu	ire 🗌 Ex	empt 🛛		
	Other 🗌	Pressure		and the second	Temp.		• • F		
	*Record test pro	essure and temperature							

· · ·

DP-CC-5703-02 Rev. 01	Report Number 3514
. Remarks No Code Data Report. Previous	NIS-2 Data Report No. 1563.
,,,p),	
CER	TIFICATE OF COMPLIANCE
certify that the statements made in the repor	t are correct and that this conforms to the requirements of the ASME
Code, Section XI.	
Гуре Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization NoN/A	Expiration Date N/A
(t)	
Signed T. White AUCK	Engineer V Date February 19, 20 15
Owner or Owner's Designee, Ti	
the undersigned, holding a valid commission nd the State or Province ofPennsylvania	n issued by the National Board of Boiler and Pressure Vessel Inspectors a and employed by Hub Klibel of
and the State or Province of <u>Pennsylvania</u>	a and employed by the flabel of and an and employed by the flabel of an and a flabel of a flabel
and the State or Province of <u>Pennsylvania</u> <u>4ART たっえせ、こて</u> have inspected the Dwner's Report during the period <u>S</u>	a and employed by $\frac{448}{148} \frac{616}{61}$ of $\frac{422}{67}$ components described in this $\frac{-24-14}{15}$ to $\frac{2-18-15}{5}$, and state that to the
nd the State or Province of <u>Pennsylvania</u> <u>AA&Tたのふく、こて</u> have inspected the Owner's Report during the period <u>S</u> - pest of my knowledge and belief, the Owner h	a and employed by $\frac{468}{166}$ $\frac{666}{166}$ of $\frac{262}{166}$ of $\frac{26}{166}$ components described in this $\frac{-24-14}{16}$ to $\frac{2-17-15}{16}$, and state that to the as performed examinations and taken corrective measures described in
and the State or Province of <u>Pennsylvania</u> <u>4ART たっえせ、こて</u> have inspected the Dwner's Report during the period <u>S</u>	a and employed by $\frac{468}{166}$ $\frac{666}{166}$ of $\frac{262}{166}$ of $\frac{26}{166}$ components described in this $\frac{-24-14}{16}$ to $\frac{2-17-15}{16}$, and state that to the as performed examinations and taken corrective measures described in
and the State or Province of <u>Pennsylvania</u> AARTFOAd, CT have inspected the Dwner's Report during the period <u>S</u> - pest of my knowledge and belief, the Owner have his Owner's Report in accordance with the rec	a and employed by $\frac{448}{448} \frac{648}{648}$ of $\frac{422}{64}$ of $\frac{422}{64}$ components described in this $\frac{-24-14}{4}$ to $\frac{2-17-15}{5}$, and state that to the as performed examinations and taken corrective measures described in quirements of the ASME Code, Section XI.
and the State or Province of <u>Pennsylvania</u> have inspected the Dwner's Report during the period <u>Sec</u> best of my knowledge and belief, the Owner has his Owner's Report in accordance with the rec	a and employed by $\frac{468}{1686}$ $\frac{666}{166}$ of $\frac{26622}{6}$ components described in this $\frac{-24-14}{16}$ to $\frac{2-17-15}{16}$, and state that to the as performed examinations and taken corrective measures described in quirements of the ASME Code, Section XI.
and the State or Province of <u>Pennsylvania</u> have inspected the Dwner's Report during the period <u>Sec</u> hest of my knowledge and belief, the Owner has his Owner's Report in accordance with the rec By signing this certificate neither the inspector concerning the examinations and corrective m	a and employed by $\frac{468}{168}$ $\frac{668}{168}$ of $\frac{468}{168}$ of $\frac{468}{168}$ components described in this $\frac{-24}{14}$ to $\frac{2-17-15}{15}$, and state that to the as performed examinations and taken corrective measures described in quirements of the ASME Code, Section XI. The nor his employer makes any warranty, expressed or implied, measures described in this Owner's Report. Furthermore, neither the
and the State or Province of <u>Pennsylvania</u> have inspected the Dwner's Report during the period <u>Sec</u> hest of my knowledge and belief, the Owner has his Owner's Report in accordance with the rec By signing this certificate neither the inspector concerning the examinations and corrective m	a and employed by $\frac{468}{1686}$ $\frac{666}{166}$ of $\frac{26622}{6}$ components described in this $\frac{-24-14}{16}$ to $\frac{2-17-15}{16}$, and state that to the as performed examinations and taken corrective measures described in quirements of the ASME Code, Section XI.
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1. Owner <u>F</u>	-02 Rev. 02 FirstEnergy Nuclea (NAME)	r Operating Com	pany	Date <u>10/27/2015</u>		rt Number <u>3517</u>	
76 South	Main Street – Akı (ADDRESS)	on, OH 44308	_	Sheet	1		
2. Plant	Beaver Valley F	ower Station (BV	<u>/PS)</u>	Unit No.	• • • • • • • • • • •	2	
<u>P.O. Box</u>	4, Shippingport, P, (ADDRESS)	A 15077	······	Orc	der #200	0418384 ion P.O. No., Job No.,	etc.
3. Work Per	formed By <u>BVPS</u>	Construction Ser	<u>vices</u>	Type Code Symbo	ol Stamp	DN/	Α
<u>P.O. Box /</u>	4, Shippingport, PA (ADDRESS)	15077		Authorization No. Expiration Date			
4. Identificati	on of System Se	ervice Water (Cla	<u>ss 3)</u>				
(b) Applical	le Construction Code <u>s</u> ble Edition of Section X ble Section XI Code Ca	I Utilized for Repair/R		<u>N'72_</u> Addenda, Code (tivity <u>2001E-2003A</u>	Case <u></u>		
6. Identificatio	on of Components						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	
			Board	Other		Removed, or	Code Stampe
Component Butterfly	Manufacturer	Serial No.	Board No.	Other Identification 2SWS-	Built	Removed, or Installed	Code Stamper (Yes or No)
Component Butterfly Valve Butterfly Valve	Manufacturer Henry Pratt	Serial No. D-0014-1-1	Board No. N/A	Other Identification 2SWS- MOV102A 2SWS-	Built 2015	Removed, or Installed Removed	Code Stamped (Yes or No) Yes
Component Butterfly Valve Butterfly	Manufacturer Henry Pratt Weir Valves	Serial No. D-0014-1-1 1-01365-10	Board No. N/A N/A	Other Identification 2SWS- MOV102A 2SWS- MOV102A Trace Code:	Built 2015 1978	Removed, or Installed Removed Installed	Code Stamped (Yes or No) Yes Yes
Component Butterfly Valve Butterfly Valve	Manufacturer Henry Pratt Weir Valves	Serial No. D-0014-1-1 1-01365-10	Board No. N/A N/A	Other Identification 2SWS- MOV102A 2SWS- MOV102A Trace Code:	Built 2015 1978	Removed, or Installed Removed Installed	Code Stamped (Yes or No) Yes Yes
Component Butterfly Valve Butterfly Valve -1/4" Screw	Manufacturer Henry Pratt Weir Valves	Serial No. D-0014-1-1 1-01365-10 N/A	Board No. N/A N/A N/A	Other Identification 2SWS- MOV102A 2SWS- MOV102A Trace Code:	Built 2015 1978	Removed, or Installed Removed Installed	Code Stamped (Yes or No) Yes Yes

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OD 00 5703 03 Dev 03	Report Number 3517
OP-CC-5703-02 Rev. 02 *Record test pressure and temperature	
Remarks Code Data Report attached.	Data Reports to be attached
· ·	
CERTIFICATE	OF COMPLIANCE
certify that the statements made in the report are corre ode, Section XI.	ct and that this conforms to the requirements of the ASME
vpe Code Symbol Stamp <u>N/A</u>	
ertificate of Authorization NoN/A	Expiration DateN/A
gned Thomas White The te	Engineer V Date October 29th, 20 15
Owner or Owner's Designee, Title	
CERTIFICATE OF I	NSERVICE INSPECTION
the undersigned, holding a valid commission issued by	/ the National Board of Boiler and Pressure Vessel Inspector
nd employed by <u>HSB Global Standards</u> of	Hartford, CThave inspected the components $5-24-14$ to $10-30-15$ to $10-30-15$
ad state that to the best of my knowledge and belief, th	e Owner has performed examinations and taken corrective
easures described in this Owner's Report in accordance	ce with the requirements of the ASME Code, Section XI.
	in the second sector from the d
y signing this certificate neither the inspector nor his er	nployer makes any warranty, expressed or implied,
	escribed in this Owner's Report. Furthermore, neither the for any personal injury or property damage or a loss of any
nd arising from or connected with this inspection.	to any personal injury of property damage of a rece of any
Dean S. Jula Con Inspector's Signature	nmission NB 9428 ANIB
Inspector's Signature	National Board Number and Endorsement
ate, 20 <u>/ 5 -</u>	

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

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1. Manufactured and ce	rtified by: Weir Valve	es and Controls USA Inc., 29 (name and address of	Old Right Road Ipswich, M/ N Certificate Holder)	01938
2 Manufacturad for Ei	int Francis Companies - David	_		
2. Mianulactured for_P	inst Energy Corporation, Route	e 168, Shippingport, PA 150 (name and address		
		•	· •	
	on_Beaver Valley Power Static	on, Route 168, Shippingport, (name and a	PA 15077 ddress}	
4. Model No., Series No.	, or Type_TCBVD	rawing_10001365-10	Rev. <u>01</u>	RN _ <u>N/A</u>
5. ASME Code, Section	III, Division 1: <u>1971</u> (edition)	Winter 1972 (addenda date)		N/A
6. Pump or Valve <u>Valv</u>	e Nominal Inlet size	Outlet size	30	
• • • • • • • • • • • • • • • • • • • •			<u> </u>	
7. Material: Body <u>SA3</u>	51_CF8M · Bonnet.	<u>SA240 316 L</u> Disk	SA351 CF8M Bolting	See Remarks
(8)	(b)	(c)	(d)	(e)
Cert.	Nati	Body	Bonnet	Disk
Holder's	Board	Serial	Serial	Serial
Serial No.	No.	No.	No.	No.
1-01365-10	N/A	HT. #:14354	HT.#:H2P7	HT. #: 14359
		S/N.#: AG306	TR# 47080 S/N# 3	S/N.#: AG305
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* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

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

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

Certificate Holder's Serial No. <u>1-01365-10</u>
8. Design conditions <u>275</u> psi <u>100</u> °F or valve pressure class <u>150</u> (pressure) (temperature)
9. Cold working pressure275 psi at 100°F
10. Hydrostatic test <u>425</u> psi. Disk differential test pressure <u>165</u> psi
11. Remarks:Hex Cap Screw SA 193 Gr B8M CL 1 HT# : 253388 TR# 304C
CERTIFICATION OF DESIGN
Design specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E (when applicable) P.E. State P.E. State N/A P.E. State N/A (when applicable) P.E. State N/A P.E. State N/A
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 6-13-16
Date / 0/6/5 Name WEIR VALVES & CONTROLS USA INC Signed Signed Signed Signed (euthorized 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 <u>ME</u> and employed by <u>HSBCT</u> of <u>Hartford, CT</u> _ have inspected the pump, or valve, described in this Data Report on <u>10-6-2015</u> , and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

pump, or varve, in accordance with the ASME code, Section III, Division I. By signing this Certificate, neither the inspector/hor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, petither 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 10-6-2015	Signed(Authorized Inspector)	

(1) For manually operated valves only.

NOP-CC-5703-0	2 Rev. 01				Repor	t Number 3744	
1. Owner <u>Fi</u>	rstEnergy Nuclear	Operating Co.	_	Date <u>11/19/2014</u>			
76 South	Main Street – Akr (ADDRESS)	on, OH 44308	-	Sheet			
2. Plant	Beaver Valley P	ower Station (BVI	PS)				
<u>P. O. Box</u>	4, Shippingport, P (ADDRESS)	A 15077		Orc Repair/Replaceme	ler #200 Int Organizati	518568 on P.O. No., Job No.,	elc.
3. Work Perfo	ormed By <u>BVPS I</u>	Maintenance (NAME)		Type Code Symbo	ol Stamp)N//	۹
<u>P. O. Box 4</u>	4. Shippingport, P/ (ADDRESS)	A 15077		Authorization No.		<u>"</u>	
1. Identificatio	on of System <u>Ct</u>	emical and Volur		Class 3)			
(b) Applicab (c) Applicab	e Construction Code <u>S</u> le Edition of Section XI le Section XI Code Ca on of Components	Utilized for Repair/Re		<u>2'73_</u> Addenda, Code C tivity <u>2001E-2003A</u>	Case <u></u>		
					·	1	Г
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)
Ball Valve	Contromatics	84038-8-9	N/A	2CHS-50	1976	Corrected	Yes
Ball	Flowserve	N/A	N/A	Trace Code 22198	2006	Installed	No
Description	of Work <u>Replaced</u>	valve ball.					
Tests Condu	ucted: Hydrosta Other 🗌	tic* 🗍 Pneun Pressure		Nominal Operating		ire 🗌 Ex	empt 🔀

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 01 Report Number 3744
9. Remarks <u>Valve original Data Report with N-5 #2-SR-7-03-CHS</u> <u>No previous NIS-2 data reports</u> Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed Twhite Willer Explores V Date November 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 <u>Pennsylvania</u> and employed by <u>HCB 6Lobel</u> of <u>HARTFORD</u> , CT have inspected the components described in this
Owner's Report during the period $5-24-14$ to $11-24-14$, 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.
Dear Signature Commissions JB9428AJIB PA2384 Inspector's Signature National Board, State, Province, and Endorsements
Date, 20 <u>19</u>

- F	ORM NIS-2 O	WNER'S REP(As Required by th		REPAIRS/REP		MENT ACT	ΓΙVΙΤΥ		
NOP-CC-5703-0	02 Rev. 01	· · · · · · · · · · · · · · · · · · ·				rt Number 3745			
1. Owner <u>Fi</u>	rstEnergy Nuclea	Operating Co.		Date <u>11/26/2014</u>			·		
76 South	Main Street – Akr (ADDRESS)	on, OH 44308		Sheet					
2. Plant	Beaver Valley P	ower Station (BV	<u>'PS)</u>						
P. O. Box	4, Shippingport, P (ADDRESS)	A 15077		Ord Repair/Replaceme	ler #200)568664 ion P.O. No., Job No.,	, elc.		
3. Work Perfe	ormed By <u>BVPS I</u>	Maintenance (NAME)		Type Code Symbo	ol Stamp	⊳ <u>N/</u>	Ά		
<u>P. O. Box 4</u>	4, Shippingport, P. (ADDRESS)	A 15077		Authorization No Expiration Date _	<u>N/A</u>				
4. Identificatio	on of System <u>Cl</u>	nemical and Volui		Class 3)					
(b) Applicab		Utilized for Repair/R		3 <u>73</u> Addenda, Code C tivity <u>2001E-2003A</u>					
6. Identificatio	n of Components								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)		
Ball Valve	Contromatics	84038-8-3	N/A	2CHS-54	1976	Corrected	Yes		
Ball	Flowserve	N/A	N/A	Trace Code 22198	2006	Installed	No		
		•			-				
. Description o	of Work <u>Replaced</u>	valve ball.		· · · · ·					
Tests Condu	5			Nominal Operating	Pressu	ire 🗌 Exi	empt 🛛		
	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 <u>3745</u>
9. Remarks Valve original Data Report with N-5 #2-SR-7-03-CHS. No previous NIS-2 data reports. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. N/A Expiration Date N/A Signed T. White Vice Control Nuclear Engineer V Date December 01 , 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 Inspect and the State or Province of <u>Pennsylvania</u> and employed by \underline{HL} \underline{LL} \underline{LL} \underline{LL} and \underline{LL} \underline{LL} and \underline{LL} and \underline{LL} \underline{LL} and \underline{LL}
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the nspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of an kind arising from or connected with this inspection.
Dean S. Junk Commissions NB9428ANIB PA2384 Inspector's Signature National Board, State, Province, and Endorsements
Date, 20

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. 02 Report Number 3804 1. Owner First Energy Nuclear Operating Company Date _____ 10-21-15 (NAME) 76 South Main Street - Akron, OH 44308 Sheet _____ 1 ____ of _____1 (ADDRESS) Unit No. _____ 2 2. Plant _____ Beaver Valley Power Station (BVPS) (NAME) P.O. Box 4, Shippingport, PA 15077 Westinghouse PO #47553320 (See Remarks) (ADDRESS Repair/Replacement Organization P.O. No., Job No., etc. 3. Work Performed By <u>Technical Services Engineering</u> Type Code Symbol Stamp ____ N/A (NAME) P.O. Box 4, Shippingport, PA 15077 Authorization No. <u>N/A</u> (ADDRESS) Expiration Date _____ N/A 4. Identification of System _____ Reactor Coolant 5. (a) Applicable Construction Code <u>ASME Section III</u> <u>1971</u> Edition, <u>Summer 1972</u> Addenda, <u>See N-1</u> 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 Corrected. National Removed, ASME Name of Name of Manufacturer Board Other Year Code Stamped or Component Manufacturer Serial No. No. Identification Built Installed (Yes or No) Steam Westinghouse DMGT-1961 W-16598 2RCS-SG21A 1977 CORRECTED YES Generator 7. Description of Work Installed 42 Inconel 690 plugs in 21 tubes. Replaced a bolt on secondary side hand hole opening #2, bolt location #8. 8. Tests Conducted: Hydrostatic* Pneumatic* 🗌 Nominal Operating Pressure 🖂 Exempt Pressure <u>N/A</u> psi Other 🗍 Test Temp. <u>N/A</u> °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. 02 Report Number <u>3804</u>
9. Remarks Primary side orders: 200607906 & 200607043. Installed 2 primary manway gaskets.
Applicable Manufacturer's Data Reports to be attached Secondary side order: 200607907. Installed 4 inspection port gaskets and 2 hand hole gaskets.
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Gary Alberti/SG Project Manager</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by
of <u>HARTFORD</u> , CT have inspected the components described
in this Owner's Report during the period $5-24-14$ to $10-23-15$, and state that to
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures
described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the
inspector nor his employer shall be 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. Jinh Inspector's Signature Commission NB 9428 ANIB National Board Number and Endorsement
Inspector's Signature National Board Number and Endorsement
Date $10-23-$, 20 15

NOP-CC-5703-	02 Pay 02	As Required by the second seco		s of the AS	ME Code S	ection X	I	
							rt Number 3805	
1. Owner <u>F</u>	Owner First Energy Nuclear Operating Company					1-15	·	
76 South	Main Street – Aki (ADDRESS)	ron, OH 44308		Sheet		1	of1	
	-			Unit No	•		_2	
2. Plant	Beaver Valley F	Power Station (B)	<u>/PS)</u>					
	P.O. Box 4, Shij (ADDRESS)	opingport, PA 15	077	Westing	house P	O #475 ent Organiza	53320 (See tion P.O. No., Job No.,	<u>Remarks)</u> etc.
3. Work Perf	ormed By <u>Techni</u>	cal Services Eng	ineering	Туре Со	ode Symbo	ol Stam	oN//	Α
•	P.O. Box 4, Shi	ippingport, PA 1	5077	Authoriz	ation No.		<u>N/A</u>	
	(NODICEO)			Expiratio	on Date		N/A	
. Identificati	on of System	Reactor Coo	lant					
(c) Applicab	ole Edition of Section X ole Section XI Code Ca on of Components	se(s): <u>N/A</u>		Activity <u>2001</u>	Edition, 200	3 Addend		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other ntification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe (Yes or No)
Steam Generator	Westinghouse	DMGT-1962	W-1659	9 2RC	S-SG21B	1977	CORRECTED	
	of Work Installed	<u>36 Inconel 690 pl</u>	lugs in 18 ti	ubes.				
Description of								

IOP-CC-5703-02 Report Number 3805	
. Remarks Primary side orders: 200607909 & 200607042. Installed 2 primary manway gaskets.	
Applicable Manufacturer's Data Reports to be attached Secondary side order: 200607910. Installed 4 inspection port gaskets and 2 hand hole gaskets.	
n-situ tested 1 tube using the EPRI Guidelines as guidance. No leakage was reported at any of the target	
Insite tested in tube using the EPKI Guidelines as guidance. No leakage was reported at any of the target	
ressures.	
CERTIFICATE OF COMPLIANCE	
certify that the statements made in the report are correct and that this conforms to the requirements of the . code, Section XI.	ASME
ype Code Symbol Stamp <u>N/A</u>	
ertificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>	
igned <u>Gary Alberti/SG Project Manager</u> Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION	
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Ir	nspector
nd employed by <u>HSB GLOBEL STANDARDS</u> HARTFORD, CT have inspected the components of	 describe
this Owner's Report during the period $\underline{5-24-14}$ to $\underline{10-23}-\sqrt{5}$, and state	
e best of my knowledge and belief, the Owner has performed examinations and taken corrective measures	
escribed in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
y signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,	
procerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither	er the
spector nor his employer shall be liable in any manner for any personal injury or property damage or a loss	of any
nd arising from or connected with this inspection.	
Que l'in Commission 1891() 7 Autra	
Inspector's Signature Commission Image: National Board Number and Endorsement	
ate $10 - 23, 20 / 5$	

F	ORM NIS-2 O	WNER'S REP As Required by th	ORT FOF	REPAIRS/RE	PLACE Section X		ΓΙVΙΤΥ	
NOP-CC-5703-	02 Rev. 02	•				rt Number <u>3806</u>		
1. Owner <u>F</u>	irst Energy Nuclea	ar Operating Com	npany	Date 10-				
76 South	Main Street – Akı (ADDRESS)	on, OH 44308		Sheet	1	of1		
2. Plant	Beaver Valley F	ower Station (B)	<u>/PS)</u>	Unit No		_2		
	P.O. Box 4, Shi (ADDRESS)	077	Westinghouse PO #47553320 (See Remarks) Repair/Replacement Organization P.O. No., Job No., etc.					
3. Work Perf	ormed By <u>Techni</u>	cal Services Eng	ineering	Type Code Sym	bol Stam	pN/	A	
	P.O. Box 4, Shi (ADDRESS)	ppingport, PA 1	5077	Authorization No				
4. Identificatio	on of System	Reactor Coo	lant	Expiration Date		<u>N/A</u>		
(b) Applicab (c) Applicab	e Construction Code le Edition of Section X le Section XI Code Ca on of Components	I Utilized for Repair/F	<u>1971</u> Edit Replacement A	ion, <u>Summer 1972</u> A	Addenda, <u>Sa</u> 203 Addenc	<u>ee N-1</u> Code (<u>da</u>	Case	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	l Other Identificatior	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Steam Generator	Westinghouse	DMGT-1963	W-16600	2RCS-SG210	2 1977	CORRECTED	YES	
7. Description c sentinel) plugs.	of Work Installed	60 Inconel 690 pl	ugs in 30 tu	bes. 12 of the 60	hot leg p	lugs were "lea	ak limiting"	
3. Tests Condu	Other 🗌		matic* 🗍 N/A	Nominal Operatir psi Te	ng Pressu st Temp.		empt [] °F	

• • • • • • • • • • • • • • • • • • • •	of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02	Report Number 3806
9. Remarks Primary side orders: 200607913 & 20060704	1. Installed 2 primary manway gaskets.
Applicable Manufacturer's Data Secondary side order: 200607914. Installed 4 inspection p	
pressures.	
CERTIFICATE O	F COMPLIANCE
I certify that the statements made in the report are correct a Code, Section XI.	and that this conforms to the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u>	Expiration DateN/A
g. A	Date Oct 21, 2015
Signed <u>Gary Alberti/SG Project Manager</u> Owner or Owner's Designee, Title	$\Delta \sim i \alpha$ Date Oct 21, 2015
CERTIFICATE OF INS	e National Board of Boiler and Pressure Vessel Inspectors
and employed by HSB GLOBOLSTAND AR CS	
of <u>HARTRORM</u> CT. In this Owner's Report during the period <u>5-24-14</u>	have inspected the components described
the best of my knowledge and belief, the Owner has perform described in this Owner's Report in accordance with the req	ned examinations and taken corrective measures
By signing this certificate neither the inspector nor his emplo concerning the examinations and corrective measures desc nspector nor his employer shall be liable in any manner for kind arising from or connected with this inspection.	ribed in this Owner's Report. Furthermore, neither the any personal injury or property damage or a loss of any
	ssion NB 9428 ANIB
Dean S. Junion Commis Inspector's Signature	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-						ort Number 3811	
1. Owner <u>F</u>	FirstEnergy Nucle (NAME)	ar Operating Co.		Date <u>10-28-201</u>			
_76 South	Main Street – A (ADDRESS)	kron, OH 44308		Sheet			
2. Plant	Beaver Valley	Power Station (B	VPS)	Unit No.		#2	
PO Box 4	, Shippingport, P (ADDRESS)	A 15077		Or Repair/Replacem	der # 20	0585202 200 ation P.O. No., Job No.	585204 , etc
3. Work Perf	formed By <u>BVPS</u>	Construction Se	rvices	Type Code Symb			/A
<u>PO Box 4,</u>	Shippingport, P/ (ADDRESS)	A 15077	1	Authorization No.			
	on of System		ł	Expiration Date		N/A	
(b) Applicab (c) Applicab	le Construction Code ple Edition of Section ple Section XI Code C on of Component	ase(s): <u>N/A</u>	Edit	ion, <u>1971</u> Addenda ivity <u>2001 Edition to 2</u>	, <u>W '72</u> 003 Adde	Code Case <u>N/A</u> nda	
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)
Spool (FWE-7-6)	Power Piping	N-1141-4130	N/A	Pipe Line 2- FWE-006-7-3	1980	Corrected	Yes
「ee, 6"x6"x3"	Weld Bend	N/A	N/A	Heat # 14225 Pc 2	2015	Installed	No
Pipe Line	First Energy	N/A	N/A	2-FWE-003- 174-3	2015	Installed	No
Pipe, CS, 3", Sch 80	TMK IPSCO	N/A	N/A	Heat # 490731	2015	Installed	No
Elbow, 90 deg	Weld Bend	N/A	N/A	Heat # 486368	2015	Installed	No
Elbow, 90 deg	Weld Bend	N/A	N/A	Heat # 486368	2015	Installed	No

FO		NER'S REPOR	RT FOR RE	PAIRS/REPLA ASME Code Sect	CEM	ENT ACTIV	/ITY
NOP-CC-5703-02						lumber <u>3811</u>	
Elbow, 90 deg	Weld Bend	N/A	N/A	Heat # 486368	2015	Installed	No
Elbow, 90 deg	Weld Bend	N/A	N/A	Heat # 486368	2015	Installed	No
Ball Valve, 3"	BNL Industries	A141009-12-3	N/A	Valve ID: 2FWE-384	2015	Installed	Yes
Pipe Support	First Energy	N/A	N/A	Support ID: 2SIS-PSR790, 2SIS-PSR791	2015	Corrected	No
Pipe Support	First Energy	N/A	N/A	Support ID: 2FWE- PSR471	2015	Installed	No
Strap, Pipe	Anvil International	N/A	N/A	Heat # 63136150	2015	Installed	No
Plate, CS, 1/2" thick	Nucor (Olympic Steel)	N/A	N/A	Heat # A4S2521-01	2014	Installed	No
Plate, CS, 1/4" thick	Nucor (Kloeckner Metals)	N/A	N/A	Heat # B4V8687-04	2014	Installed	No
Tube Steel, 4"x4"x3/8"	Hanna Steel	N/A	N/A	Heat # B416002	2015	Installed	No
7. Description of Work <u>Pipe line 2-FWE-006-7-3 (spool FWE-7-6) was corrected by adding a reducing tee and installing Flex Mod piping</u> . Pipe support 2FWE-PSR471 supports Flex Mod pipe line 2-FWE-003-174-3. Support 2FWE-PSR471 is connected to support 2SIS-PSR790, 2SIS-PSR791.							
8. Tests Conducted: Hydrostatic* Pneumatic* Nominal Operating Pressure Exempt Other Pressure psi Test Temp °F							

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

NOP-CC-5703-02 Rev. 02

Report Number 3811

9. Remarks <u>Piping Isometric 10080-2806.263-920-035 (101607) shows pipe line 2-FWE-006-7-3 and spool</u> <u>FWE-7-6. The N5 Code Data Report for this spool is part of System 24 package 04 (ID: 2-SR-24-04-FWE).</u> <u>N5 Code Data Report is on Film Number S1403, this spool is identified on slide #276.</u>
The code data report for valve 2FWE-384 is attached to this NIS-2 report. Support 2SIS-PSR790, 2SIS-PSR791 is installed on NIS-2 report #3870. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III</u> tomas M Levis Date <u>Oct 28</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5 - 24 - 14$ to $10 - 30 - 15$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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. Mynth Commission NB942-8 A MTB Inspector's Signature National Board Number and Endorsement
Date, 20 _/ 5

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 _	BNI		IES INC., 30 INDUS		ARK ROAD, VERN	ON, CT 0605	6	
2. Manufactured for	(name and address of N Certificate Holder) FIRST ENERGY SERVICE COMPANY, 76 SOUTH MAIN STREET, AKRON, OH 44308							
			iname and address o					
3. Location of installation	BEAVER VALL	EY NUCLE	AR POWER PLANT	, 1 ROU	TE 168, SHIPPING	PORT, PA 15	077	
4. Model No., Series No., or Type	VALVE	Drawing	GBV-B2-30-0115	_ flev.	c	CRN		
5. ASME Code, Section III, Division 1	1971 (edition)		W72		3			
6. Pump or valve VALVE	_ Nominal inlet size		Addenda (If applicable) (d 		(class) 3"		(Code Casa no.)	
7. Material (a) valve Body <u>SA-105</u> (b) pump Casing	Bonnet <u>SA-105</u> Cover <u>SA-105</u>	_ Disk _ Boltin	<u>SA-479 TY.3</u> 16 Bo 9	liting <u>SA</u>	<u>453GR.6</u> 60			
(a) Certificate Holdør's Serial No.	(b) National Board No.	B	(c) ody/Casing Seriel No.	i	(d) Bonnet/Covar Seriał No.		(e) Disk Serial No.	
A141009-12-(1 THRU 3)			89G		462G		392G	
		- <u></u>						
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		<u></u>						
	<u></u>							
								
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* Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 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.

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

			Certificate Hol	lder's Seri	ai No.	A14100	9-12-(1 thn
			1	А	NSI 90	0#	
3. Design conditions(pressure)	(temperature)	or valve pressure cl	4855			-	1
. Cold working pressure2160 PSIG @100°F							/
			246	0 PSIG			
). Hydrostatic test Dis	k differential test pressure						
. Remarks							
	CERTIFICATION O	F DESIGN					
	John W. Dingler		P.E. State	<u> </u>	. Reg.	no. 0 <u>62</u>	-038953
					•		
Design Report certified by	CERTIFICATE OF CO	OMPLIANCE	P.E. State			no	
esign Report certified by We certify that the statements made in this m SME Code, Section III, Division 1.	CERTIFICATE OF CO	DMPLIANCE this pump or valve Expires _	e conforms to		s for c	no	
esign Report certified by le certify that the statements made in this m SME Code, Section III, Division 1. Certificate of Authorization No	CERTIFICATE OF CC eport are correct and that N-2582	DMPLIANCE this pump or valve Expires _		the rules	s for c	no	
Aesign Report certified by We certify that the statements made in this magnetic statements made in this magnetic statements for the statements made in this magnetic statements for the statements made in this magnetic statements made in the statements made in this magnetic statements made in the	CERTIFICATE OF CO eport are correct and that N-2582 NL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF IN	DMPLIANCE this pump or valve Expires Signed Signed ISPECTION	e conforms to Starin (the rule: 11/10 S.A.L.	s for cr 2016 presented	no	ion of the
resign Report certified by /e certify that the statements made in this magnetic statements made in this magnetic statements for the statements made in this magnetic statements for the statements made in this magnetic statements made in the statements made in the statements made in this magnetic statements made in the statements	CERTIFICATE OF CO eport are correct and that N-2582 NL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF IN	IMPLIANCE this pump or valve Expires Signed Signed ISPECTION Board of Boiler and	e conforms to Starin (the rule: 11/10 S.A.L.	s for cr 2016 presented	no	ion of the
the undersigned, holding a valid commissio	CERTIFICATE OF CO eport are correct and that N-2882 NL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN In issued by the National E ONECIS INSURANC	DMPLIANCE this pump or valve Expires - Signed Signed SPECTION Board of Boiler and E COMPANY have inspected the	e conforms to Stayen k I Pressure Ves pump, or valv	the rules 11/10 11/10 sathorized re sset inspe	s for co 2016	no	ion of the
the undersigned, holding a valid commission	CERTIFICATE OF CO eport are correct and that N-2582 NL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF IN on issued by the National I ONECIS INSURANC	DMPLIANCE this pump or valve Expires - Signed Signed SPECTION Board of Boiler and E COMPANY have inspected the	e conforms to Stayen k I Pressure Ves pump, or valv	the rules 11/10 11/10 sathorized re sset inspe	s for co 2016	no	ion of the
esign Report certified by le certify that the statements made in this magnetic statements made in the inspector magnetic statements magnetic statements magnetic statements made in the inspector magnetic statements magnetic statem	CERTIFICATE OF CC eport are correct and that N-2882 NL INDUSTRIES, INC. (N Certificate Hekker) CERTIFICATE OF IN In issued by the National E ONECIS (NSURANC ONECIS (NSURANC of the best of my knowledge ivision 1. or his employer makes any v	DMPLIANCE this pump or valve Expires Signed ISPECTION Board of Boiler and E COMPANY have inspected the r and belief, the Cartif	e conforms to Stayen I Pressure Ves pump, or valv ficate Holder h or Impiled, co	the rules 11/10 3	s for co	no onstruct we) nis Data is pump	ion of the
The undersigned, holding a valid commission $\frac{12}{3/20/15}$, and state that to accordance with the ASME Code, Section III, Division 1. $\frac{12}{3/20/15}$, and state that to $\frac{12}{3/20/15}$, and state that the the inspector recently a signing this certificate neither the inspector recently a signing the second and the state that the inspector recently a signing the second and the second an	CERTIFICATE OF CO eport are correct and that N-2882 NL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN In issued by the National E ONECIS INSURANC ONECIS INSURANC of the best of my knowledge ivision 1. or his employer makes any to pector nor his employer shall	DMPLIANCE this pump or valve Expires Signed ISPECTION Board of Boiler and E COMPANY have inspected the r and belief, the Cartif	e conforms to Stayen I Pressure Ves pump, or valv ficate Holder h or Impiled, co	the rules 11/10 3	s for co	no onstruct we) nis Data is pump	ion of the
Design Report certified by We certify that the statements made in this re- SME Code, Section III, Division 1. I Certificate of Authorization No bate $3/30/15$ Name B The undersigned, holding a valid commission f LYNN, MA 3/20/15, and state that to accordance with the ASME Code, Section III, D y signing this certificate neither the inspector re- ontic Data Report. Furthermore, neither the inspector re-	CERTIFICATE OF CO eport are correct and that N-2882 NL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN In issued by the National E ONECIS INSURANC ONECIS INSURANC of the best of my knowledge ivision 1. or his employer makes any to pector nor his employer shall	DMPLIANCE this pump or valve Expires - Signed Signed SPECTION Board of Boiler and ECOMPANY have inspected the and belief, the Cartif warranty, expressed II be liable in any me	e conforms to States k I Pressure Ves pump, or valv licate Holder h or Impiled, co anner for any p	the rules 11/10 3	s for co	no onstruct we) nis Data is pump	ion of the sloyed by Report on b, or valve, described
, the undersigned, holding a valid commissio	CERTIFICATE OF CC eport are correct and that N-2882 NL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN on issued by the National E ONECIS INSURANC ONECIS INSURANC othe best of my knowledge ivision 1. or his employer makes any to pector nor his employer shall ith this inspection.	DMPLIANCE this pump or valve Expires - Signed Signed SPECTION Board of Boiler and ECOMPANY have inspected the and belief, the Cartif warranty, expressed II be liable in any me	e conforms to Statin (I Pressure Ves pump, or valv ficate Holder h or Implied, co anner for any p	the rules 11/10 3	s for co 2016 presentat ctors a ed in th incted th the com	no	ion of the

(07/11)

	3-02 Rev. 02				Repo	rt Number 3812			
1. Owner <u>FirstEnergy Nuclear Operating Co.</u> (NAME)				Date <u>10-28-2015</u>					
_76 Sout	h Main Street – A (ADDRESS)	kron, OH 44308	_	Sheet	1	of 2			
2. Plant	Beaver Valley	Power Station (B)	<u>/PS)</u>	Unit No.		#2	74		
PO Box 4, Shippingport, PA 15077 (ADDRESS)				Order # 200584748 Repair/Replacement Organization P.O. No., Job No., etc.					
3. Work Performed By <u>BVPS Construction Services</u>				Type Code Symbol StampN/A					
PO Box 4, Shippingport, PA 15077				Authorization NoN/A					
			ļ	Expiration Date	<u> </u>	N/A			
4. Identificat	ion of System	Steam Generator F	eedwater Sy	vstem, BV-2-24-Sy	stem (C	lass 3)			
). Identificati	ble Section XI Code C on of Component Name of		National Board	Other	Year	Corrected, Removed, or	ASME		
Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	Code Stamped (Yes or No)		
				Pipe Line 2-					
Pipe Line	First Energy	N/A	N/A	FWE-003- 219-3	2014	Corrected	No		
Pipe Line lange, blind	First Energy Energy & Process Corp	N/A N/A	N/A 	FWE-003-	2014	Corrected Removed	No		
lange, blind	Energy &			FWE-003- 219-3 Trace Code					
lange, blind lange, weld	Energy & Process Corp	N/A	N/A	FWE-003- 219-3 Trace Code WPW Heat #	2014	Removed	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. 02 Report Number 3812
8. Tests Conducted: Hydrostatic* Pneumatic* Nominal Operating Pressure Exempt
Other Pressure psi Test Temp. ^ °F
9. Remarks <u>Pipe line 2-FWE-003-219-3 was added to 2-FWE-006-8-3 by First Energy in 2014, see NIS # 3722.</u> <u>Code Data Report for 2FWE-382 is attached to this report.</u> Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III</u> <u>homas</u> <u>M</u> <u>cello</u> Date <u>Oct 28</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5^{-2} + 4^{-1} + 4^{-1} + 4^{-1} + 5^{-1}$</u>
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. $ \underbrace{Max M}_{\text{Inspector's Signature}} Commission \underbrace{MA 9428 ANTB}_{\text{National Board Number and Endorsement}} $
Inspector's Signature National Board Number and Endorsement Date 10-28-

						Pg. 1 of
1. Manufactured and certified by	BN	LINDUSTR	IES INC., 30 INDL	JSTRIAL P	ARK ROAD, VERN	ON. CT 06066
			(name and ad	dress of N Cer	tificate Holderi	
2. Manufactured for	FIRST ENERG	Y SERVICE	COMPANY, 76 S	OUTH MA	IN STREET, AKRO	N, OH 44308
3. Location of installation	BEAVER VAL		thome and addres	s al Purchase NT, 1 ROU	TE 168, SHIPPING	PORT. PA 15077
			(name a	nd address)		
4. Model No., Series No., or Type _	VALVE	Drawing .	GBV-B2-30-011	5 Rev.	C	CRN
5. ASME Code, Section III, Division	1 1971		W72		3	
5. Pump or valveVALVE	(edition)		Addenda lif applicable		(class) 3"	(Code Casa no.)
	Nominal inlet size		Outlet	size		
7. Material (a) valve Body <u>SA-105</u> (b) pump Casing <u></u>	Bonnet <u>SA-105</u> Cover <u>SA-105</u> (b)	Disk Bolting	<u>SA-478 TY.3</u> 16 	Bolting <u>SA</u>	<u>-453GR.6</u> 60 (d)	
Certificate Holders Serial No.	National Board No.	Bo	dy/Casing Serial No.		Bonnet/Cover Serial No.	(s) Disk Serial No.
A141009-12-(1 THRU 3)			89G		462G	
					+026	392G
						· · · · · · · · · · · · · · · · · · ·
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			<u> </u>			

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

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

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

			Certi	ficate Holder's Se	rial No. <u>A141009-12-(1 thru</u> 3
					ANSI 900#
8. Design conditions	(pressure)	(temperature)	or valve pressure class		
9. Cold working pressure	2160 PSIG @10	00°F			
10. Hydrostatic test	3350 PSIG	. Disk differential test pressure	••••	2460 PSIG	
11. Remarks					
		CERTIFICATION	DESIGN]
		Inte M. Dission		E Stata IL	Reg. no. 0 <u>62-03895</u> 3
Design Specification cert				E. State	Reg. no
Design Report certified b	Y	CERTIFICATE OF CO	DMPLIANCE	:E. State	
Design Report certified b	ements made in the second seco	CERTIFICATE OF Co	DMPLIANCE	nforms to the rul	
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authoriza	ements made in the second seco	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Halder)	DMPLIANCE this pump or valve cor Expires	nforms to the rul	es for construction of the
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date 3/20/15	PY ements made in the Division 1. ation No	CERTIFICATE OF CO his report are correct and that N-2882 BNL INDUSTRIES, INC.	DMPLIANCE This pump or valve cor Expires Signed SI SPECTION Board of Boiler and Pres	nforms to the rul 11/1 a.c. B.c. L (authorized	es for construction of the 0/2016
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date 3/20/15	DY ements made in the Division 1. ation No Name ting a valid comm LYNN, MA	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Halder) CERTIFICATE OF IN ission issued by the National ONECIS INSURANC hat to the best of my knowledge	Compliance This pump or valve cor Expires Signed Signed Signed Signed CE COMPANY have inspected the pump	E. State	es for construction of the 0/2016 representative)
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authorize Date $3/20/15$ I, the undersigned, hold of in accordance with the AS By signing this certificate In this Data Report, furth	by ements made in the Division 1. ation No Name Name LYNN, MA , and state the SME Code, Section meither the inspec-	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN ission issued by the National ONECIS INSURANC heat to the best of my knowledge III, Division 1. tor nor his employer makes any e inspector nor his employer sha	Compliance This pump or valve cor Compliance Expires Complexity Signed Signed Signed Signed Complexity Comple	E. State	es for construction of the 0/2016
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authorize Date $3/20/15$ I, the undersigned, hold of	by ements made in the Division 1. ation No Name Name LYNN, MA , and state the SME Code, Section meither the inspec-	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN ission issued by the National ONECIS INSURANC heat to the best of my knowledge III, Division 1. tor nor his employer makes any e inspector nor his employer sha	COMPLIANCE This pump or valve cor Expires Signed Signed SI EXPECTION Board of Boiler and Pres CE COMPANY have inspected the pum and belief, the Certificate warranty, expressed or in the liable in any manner	E. State	es for construction of the 0/2016
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authorize Date $3/20/15$ I, the undersigned, hold of in accordance with the AS By signing this certificate In this Data Report, Furth	ements made in th Division 1. ation No Name ing a valid comm LYNN, MA , and state th SME Code, Section neither the inspec semore, neither the ng from or connect	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN ission issued by the National ONECIS INSURANC hat to the best of my knowledge III, Division 1. tor nor his employer makes any e Inspector nor his employer sha ted with this inspection.	COMPLIANCE This pump or valve cor Expires Signed Signed SI EXPECTION Board of Boiler and Pres CE COMPANY have inspected the pum and belief, the Certificate warranty, expressed or in the liable in any manner	E. State forms to the rul 11/1 11/1 10/1 BLAL (authorized ssure Vesset Insp p, or valve, descrip Holder has const npiled, concerning r for any personal 10961 A N	es for construction of the 0/2016

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F	ORM NIS-2 O	WNER'S REP As Required by t	ORT FOR F	REPAIRS/REP the ASME Code S			ΓΙνιτγ
NOP-CC-5703-	02 Rev. 02					rt Number <u>3816</u>	
1. Owner <u>F</u>	irstEnergy Nuclea	ar Operating Co.		Date <u>10-17-2015</u>			
76 South Main Street – Akron, OH 44308 (ADDRESS)				Sheet	1	of <u>3</u>	
2. Plant	Beaver Valley	Power Station (B)		Unit No		#2	
	(NAME) Shippingport, PA (ADDRESS)				ler # 20	0585204 tion P.O. No., Job No.	
3. Work Perf	3. Work Performed By <u>BVPS Construction Services</u>			Type Code Symbo			Ά
<u>PO Box 4,</u>	Shippingport, PA (ADDRESS)	15077	A	Authorization No.		N/A	
4 Identifiesti	an af Ourture O			Expiration Date			
4. Identification	on of System <u>S</u>	team Generator	Feedwater Sys	stem, BV-2-24-Sy	<u>stem (C</u>	lass 3)	
(b) Applicat (c) Applicat	le Construction Code ble Edition of Section X ble Section XI Code C DN of Components	KI Utilized for Repair/ ase(s): <u>N/A</u>				Code Case <u>N/A</u> nda	
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)
Spool (FWE-4-1)	Power Piping	N-1141-4148	N/A	Pipe Line 2-FWE-006- 4-3	1986	Corrected	Yes
Pipe Line	First Energy	N/A	N/A	Pipe Line 2- FWE-004- 184-4	2015	Installed	No
Weld-olet, 4"	WFI	N/A	N/A	Heat # 6063ANR	2011	Installed	No
Elbow, 90- deg, 4"	Weld Bend	N/A	N/A	Heat # 489778	2015	Installed	No
^D ipe, 4", CS, Sch 40	TMK IPSCO	N/A	N/A	Heat # 488905	2015	Installed	No
Elbow, 90- deg, 4"	Weld Bend	N/A	N/A	Heat # 489778	2015	Installed	No

FO	RM NIS-2 OW	NER'S REPO					/ITY
NOP-CC-5703-02						lumber <u>3816</u>	
Elbow, 90- deg, 4"	Weld Bend	N/A	N/A	Heat # 489778	2015	Installed	No
Valve, ball,	BNL Industries	A141009-17	N/A	Functional Location: 2FWE-387	2015	Installed	Yes
7. Description Flex mod pipin	of Work <u>Pipe line</u> g.	2-FWE-006-4-3	(spool FWE-4-	1) was corrected	by add	ing a weld-ol	et and installing
8. Tests Cond	ucted: Hydrost	atic* 🗌 🛛 Pneu	umatic* 🔲 N	ominal Operating	g Press	ure 🛛 🛛 Ex	kempt 🗌 👘
	Other)		-	·	•
		pressure and temperature		_ 20, 100	. i cinp.	· · · · · · · · · · · · · · · · · · ·	·
Report is on Fil The code data	Data Report for thi m Number S1403 report for valve 21 e statements made XI. nbol Stamp <u>N/A</u> uthorization No.	B, this spool is ide <u>EWE-387 is attac</u> Applicable Man CERTIF I e in the report are	CATE OF CO	#278. 2 report. There o be attached MPLIANCE at this conforms 	are no	prior NIS-2 re	ports.
Signed <u>Thoma</u> Ov	as M Calko, Engin wner or Owner's I	eer III Designee, Title	former M. C.	<u>lk</u> Da	ate <u>Oc</u>	<u>t 17</u> , 20) <u>15</u>

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. 02

Report Number 3816

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Bo	allor and Pressure Manual A
and employed byHSB Global Standards ofHartford, CT	
described in this Owner's Report during the period $5-24-14$	have inspected the components
and state that to the best of my knowledge and belief, the Owner has performed e	to $10-21-15$
measures described in this Owner's Report in accordance with the requirements of	the ADME of the ADME of the ADME of the
, see a secondance with the requirements (I the ASME Code, Section XI.

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

Commission <u>NB9427 ANTB</u> National Board Number and Endorsement Inspector's Signature

Date ______, 20 15

. ,

1. Manufactured and certific	ed by	L INDUSTRIES INC., 30 IN	DUSTRIAL PA	NRK RUAD, VERNO	JN, CT 06066			
		(name and	address of N Certi	ficate Holder)				
2. Manufactured for	FIRSTENERG	FIRST ENERGY SERVICE COMPANY, 76 SOUTH MAIN STREET, AKRON, OH 44308						
• • • •		(name and address of Purchaser) BEAVER VALLEY NUCLEAR POWER PLANT, 1 ROUTE 168, SHIPPINGPORT, PA 15077						
3. Location of installation	BEAVER VAL	LET NUCLEAR POWER PI	ANT, 1 ROUT	E 168, SHIPPINGP	ORT, PA 15077			
A Madel No. Device N	Time VALVE		e end address)					
4. Model No., Series No., or	Type	Drawing	Rev.	<u> </u>	CRN			
5. ASME Code, Section III, D	lvision 1 1971	W72		3				
	(edition)	(Addende (If applica	biel (date)	(223)	(Code Case no.)			
i. Pump or valveVAI	LVE Nominal Inlet size	4" Out	et size	4"				
			CI 812C					
. Material								
(a) valve Body SA	-105 Bonnet SA-105	Disk SA-479 TY.316	Bolting SA	-453GR.660				
(b) pump Casing	Cover	Bolting						
(a)	(b)	(c)		6-1L				
Certificate	National	Body/Casing	F	(d) lonnet/Cover	(e) Disk			
Holder's Serial No.	Board	Serial	-	Serial	Serial			
204 BH (30)	No.	No.		No.	No.			
A141009-17-(1 THRU 2)		462G		544G	416G			
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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

*Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 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)

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

		A141009-17-(1 THRU Certificate Holder's Serial No.
8. Design conditions	(pressure) (temperature)	or valve pressure class ANSI 150#
). Cold working pressure	5 PSIG @100"F	
. Hydrostatic test450	PSIG . Disk differential test pressu	re 320 PSIG
. Remarks		
	CERTIFICATIO	N OF DESIGN
Design Specification certified t		
	CERTIFICATE OF	COMPLIANCE nat this pump or valve conforms to the rules for construction of the
Ve certify that the statements SME Code, Section III, Division Certificate of Authorization N	CERTIFICATE OF s made in this report are correct and th n 1. N-2882	COMPLIANCE
Ne certify that the statements NSME Code, Section III, Division N Certificate of Authorization N Date 3/20/15 Nam	CERTIFICATE OF s made in this report are correct and th n 1. No	COMPLIANCE nat this pump or valve conforms to the rules for construction of the Expires
ASME Code, Section III, Division N Certificate of Authorization M Date 3/20/15 Nam , the undersigned, holding a	CERTIFICATE OF s made in this report are correct and th n 1. N-2882 BNL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF valid commission issued by the Nation ONECIS INSURA LYNN, MA , and state that to the best of my knowled ode, Section III, Division 1. et the (nepector nor his employer makes ar	COMPLIANCE nat this pump or valve conforms to the rules for construction of the Expires

(07/11)

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NOP-CC-5703-					Repo	t Number 3833	
1. Owner <u>F</u>	irstEnergy Nuclea (NAME)	r Operating Co.		Date <u>7-16-2018</u>	5		
76 South	Main Street – Ak (ADDRESS)	ron, OH 44308	_	Sheet			
2. Plant	Beaver Valley F	Power Station (BV					
PO Box 4	<u>, Shippingport, PA</u> (ADDRESS)	15077	<u> </u>	O Repair/Replace	rder # 20	0591497 ion P.O. No., Job No.,	etc.
3. Work Perf	ormed By <u>BVPS</u>	Construction Sen	vices_	Type Code Sym			
PO Box 4,	Shippingport, PA (ADDRESS)	15077		Authorization No)	<u>N/A</u>	
				Expiration Date			
(b) Applicat (c) Applicat	ble Edition of Section > ble Section XI Code Ca	ASME Section III (I Utilized for Repair/R ase(s): <u>N/A</u>	E0	lition, <u>1971</u> Addenc ctivity <u>2001 Edition to</u>	la, <u>W '72</u> 2003 Addei	Code Case <u>N/A</u>	
 (b) Applicat (c) Applicat Identification Name of 	e Construction Code ole Edition of Section > ole Section XI Code Ca on of Components Name of	ASME Section III (I Utilized for Repair/R ase(s): <u>N/A</u>	E0	ctivity 2001 Edition to	2003 Adder	Code Case <u>N/A</u> nda Corrected, Removed,	ASME Code Stampor
(b) Applicat (c) Applicat	e Construction Code ble Edition of Section > ble Section XI Code Ca on of Components	ASME Section III (I Utilized for Repair/R ase(s): <u>N/A</u>	Leplacement A	ctivity <u>2001 Edition to</u>	2003 Adder	Code Case <u>N/A</u> nda Corrected,	ASME Code Stamped (Yes or No)
 (b) Applicat (c) Applicat Identification Name of 	e Construction Code ole Edition of Section > ole Section XI Code Ca on of Components Name of	ASME Section III (I Utilized for Repair/R ase(s): <u>N/A</u> Manufacturer	Leplacement A Nationa Board	ctivity <u>2001 Edition to</u>	2003 Adder Year Built	Code Case <u>N/A</u> nda Corrected, Removed, or	Code Stamped
(b) Applicat (c) Applicat Identificatio Name of Component	e Construction Code ole Edition of Section > ole Section XI Code Ca on of Components Name of Manufacturer Stone and	ASME Section III (I Utilized for Repair/R ase(s): <u>N/A</u> Manufacturer Serial No.	Nationa Board No.	tivity <u>2001 Edition to</u> Other Identification	2003 Adder Year Built	Code Case <u>N/A</u> nda Corrected, Removed, or Installed	Code Stamper (Yes or No)
 (b) Applicat (c) Applicat Identification Name of Component Spool Sockolet, x2", 3000 lb 	e Construction Code ole Edition of Section > ole Section XI Code Ca on of Components Name of Manufacturer Stone and Webster WFI Nuclear	ASME Section III (I Utilized for Repair/R ase(s): <u>N/A</u> Manufacturer Serial No. N/A	Nationa Board No.	tivity <u>2001 Edition to</u> Other Identification Pipe Line 2-CHS-003-41- Heat #	2003 Adden Year Built 3	Code Case <u>N/A</u> nda Corrected, Removed, or Installed Corrected	Code Stamper (Yes or No) No
 (b) Applicat (c) Applicat (c) Applicat Identification Name of Component Spool Sockolet, x2", 3000 lb pe, 2", Sch 	e Construction Code ole Edition of Section 2 ole Section XI Code Ca on of Components Name of Manufacturer Stone and Webster WFI Nuclear Products	ASME Section III (I Utilized for Repair/R ase(s): N/A Manufacturer Serial No. N/A N/A	Nationa Board No. N/A	tivity <u>2001 Edition to</u> Other Identification Pipe Line 2-CHS-003-41- Heat # 4411ANA Heat #	2003 Adden Year Built 3 1987 2015	Code Case <u>N/A</u> nda Corrected, Removed, or Installed Corrected Installed	Code Stamped (Yes or No) No 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. 02 Report Number <u>3833</u>
8. Tests Conducted: Hydrostatic* Pneumatic* Nominal Operating Pressure Exempt
Other Pressure psi Test Temp °F
*Record test pressure and temperature
9. Remarks <u>Code data report for this valve is attached to this NIS-2 report.</u> Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
A MAM_
Signed <u>Thomas M Calko, Engineer III</u> <u>Jone M (1997)</u> Date <u>July 16</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5 - 2 \cdot 4 - 1 \cdot 4$</u> to <u>$7 - 17 - 1 \cdot 5$</u> ,
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dean S. M. Commission <u>NB 9428 ANTB</u> Inspector's Signature National Board Number and Endorsement
Date <u>7-17-</u> , 20 <u>15</u>

CORRECTED COPY 2/2/15

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
. Manufactured and cartified I	bγΒι	IL INDUSTRIES INC., 30 INDUS		DN, CT 06066
. Manufactured for	FIRST ENERG	SY SERVICE COMPANY, 76 SO		N, OH 44308
Location of installation	BEAVER VAL	(name and address of LEY NUCLEAR POWER PLAN)	, 1 ROUTE 168, SHIPPING	PORT, PA 15077
Model No., Series No., or Ty	pe VALVE	Drawing HBV-A2-20-0113	RevB	CRN
ASME Code, Section III, Divis	tion 1 1971	W72	3	
Pump or valveVALVE				(Code Case no.)
(b) pump Casing	[Y.304 Bonne6A-479 TY Cover	.304 Disk S <u>A-479 TY.304</u> Br Bolting	olting <u>SA-453GR-66</u> 0	
(a) Certificate Holder's Serial No.	(b) National Board No.	(c) Body/Cesing Serial No.	(d) Bonnet/Cover Seriat No.	(e) Disk Seriel No.
141009-6-(1 THRU 3)		469G	470G	468G
				·····
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*Supplemental information in the form of lists, skatches, or drawings may be used provided: (1) size is 8½ × 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.

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CORRECTED COPY 2/2/15

FORM NPV-1 (Back --- Pg. 2 of _2_)

Certificate Holder's Serial No. A141009-6- Certificate Holder's Serial No. A141009-6- ANSI 150# ANSI 150# ANSI 150# Certification pressure 275 PSIG @100*F Disk differential test pressure 320 PSIG CERTIFICATION OF DESIGN Design Report certified by 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 ASME Code, Section III, Division 1. N Certificate Inder: Name BNL INDUSTRIES, INC. Signed CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and emplo ONECIS INSURANCE COMPANY							A141009-6-(1 THE
				Ce	rtificate Hold		
Coordination (greenwer) temperature) Cold working pressure 275 PSIG @100°F Hydrostatic test 425 PSIG . Disk differential test pressure 320 PSKG Remarka CERTIFICATION OF DESIGN besign Specification certified by John W. Dingler PE. State IL Reg. no. 062-00 besign Report certified by John W. Dingler PE. State Reg. no. Design Report certified by PE. State CERTIFICATE OF COMPLIANCE Reg. no. Ve certify that the statements made in this report are correct and that this pump or valve conforma to the rules for construction SME Code, Section III, Division 1. 11 Certificate of Authorization No. N-2882 Expires 11/10/2018 Isothorized representative) Isothorized representative) Name BNL INDUSTRIES, INC. Signed Isothorized representative) Isothorized representative) CERTIFICATE OF INSPECTION Isothorized representative) the underseigned, holding a valid commission Issued by the National Board of Boiler and Pressure Vessel Inspectors and emplo ONECIS INSURANCE COMPANY LYNN, MA have Inspected the pump, or valve, described i				or valve pressure clas		AN	ISI 150#
Cold working pressure 320 PSKG Hydrostatic test 425 PSIG . Hydrostatic test 425 PSIG . Besign Specification certified by John W. Dingler Pesign Report certified by John W. Dingler PE. State IL Reg. no. 0 CERTIFICATE OF COMPLIANCE Ve certify that the statements made in this report are correct and that this pump or valve conforma to the rules for construction ISME Code, Section III, Division 1. It Certificate No. Name BNL INDUSTRIES, INC. It Certificate representative) CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and emplo ONECIS INSURANCE COMPANY Very INN, MA	Uesign conditions	(pressure)					
320 PSIG 320 PSIG Besign Specification certified by Obsign Report certified by Obsign Report certified by Obsign Report certified by PE. State IL Reg. no. 062-05 Obsign Report certified by Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 062-05 Obsign Report certified by PE. State Reg. no. 052-05 Obsign Report certified by PE. State Reg. no. 052-05 Obsign Report certified in this report are correct and that this pump or valve conforma to the rules for const	Cold working pressure	275 PSIG @100*	<u>F</u>				
					320	PSIG	
CERTIFICATION OF DESIGN Design Specification certified by	Hydrostatic test	<u> </u>	Disk differential test pressure				
John W. Dingler PE. State IL Reg. no. 062-0 Design Report certified by	Remarks						
John W. Dingler P.E. State IL Reg. no. 062-0 Design Report certified by P.E. State Reg. no. 062-0 CERTIFICATE OF COMPLIANCE Ve certify that the statements made in this report are correct and that this pump or valve conforma to the rules for construction NSME Code, Section III, Division 1. Interview of Authorization No. N-2882 Expires 11/10/2016 Description of Authorization No. N-2882 Expires 11/10/2016 Description of Authorization No. N-2882 Expires 11/10/2016 Description of Authorization No. Description of Authorization No. N-2882 Expires 11/10/2016 BNL INDUSTRIES, INC. Signed CERTIFICATE OF INSPECTION (N Certificate Holder) CERTIFICATE OF INSPECTION (NECIS INSURANCE COMPANY							
PE. State				-			
Design Report certified by	esion Specification certified	d by					
CERTIFICATE OF COMPLIANCE Me certify that the statements made in this report are correct and that this pump or valve conforma to the rules for construction ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2882 Expires 11/10/2016 Date 2/3 / 15 Name BNL INDUSTRIES, INC. Signed	esign Report certified by				P.E. State		Reg. no
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and emplo ONECIS INSURANCE COMPANY			BNL INDUSTRIES, INC.		even R	louis	1 3
f have inspected the pump, or valve, described in this Data Re	the undersigned, holding	a valid commis	CERTIFICATE OF II ision issued by the National ONECIS INSURANC	Board of Boiler and P CE COMPANY			· · · · · · -
				have inspected the pu	mp, or valve	, describe	d in this Data Report o
2/2/15, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, o	2/2/15			and belief, the Certifica	ite Holder ha	s construc	cted this pump, or valve
n accordance with the ASME Code, Section III, Division 1.		Code, Section II	I, Division 1.		implied and		a component describe
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component de In this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property of	nonectance with the ASME	ther the incoacto	r nor his employer makes any	warranty, expressed or all he liable in any man	mprieu, con ver for anv n	ersonal ini	jury or property damag
n this Data Report. Furthermore, neither the inspector nor his employer shall be haule in any mained for any personal highly or property of any kind arising from or connected with this inspection.	accordance with the ASME			Nine varie in eut mein		a.a.a	
	accordance with the ASME y signing this certificate neit this Data Report. Furtherm	ore, neither the i	nspector nor his employer she d with this inspection.				
Date 2/2/15 Signed Sliphic Commission AB5342 A & N. WS	accordance with the ASME y signing this certificate neit this Oata Report. Furtherm a loss of any kind arising fr	ore, neither the i rom or connected	d with this inspection.				
Date Signed [Authorized Nuclear Inspector] [Netional Board Number and Endorsement]	accordance with the ASME y signing this certificate neit this Oata Report. Furtherm a loss of any kind arising fr	ore, neither the i rom or connected	d with this inspection.	. 4			کړ

(07/11)

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

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lanea by	/ the	Provisions	of the	ASME	Code	Section 2	XI

NOP-CC-5703	-02 Rev. 02		Repo	rt Number 383	4		
1. Owner <u>F</u>	FirstEnergy Nucle	ar Operating Co.		Date <u>10-26-201</u>			÷
	<u>76 South Main Street – Akron, OH 44308</u> (ADDRESS) 2. Plant <u>Beaver Valley Power Station (BVPS)</u>				1	of . (
	(NAME)		<u>/// 0) _</u>	0			
	(ADDRESS)	<u> </u>	·	Repair/Replacem	der # 20 Ient Organiza	0591498 ation P.O. No., Job No	o., etc.
3. Work Per	formed By <u>BVPS</u>	Construction Ser	vices_	Type Code Symb	ol Stam	p <u> </u>	I/A
<u>PO Box 4</u>	, Shippingport, PA (ADDRESS)	<u>15077</u>	/	Authorization No.		N/A	
			E	Expiration Date		N/A	
4. Identificati	ion of System <u>(</u>	Chemical Volume	and Control S	<u>ystem, BV-2-07-S</u>	System ((Class 3)	
 5. (a) Applicable Construction Code <u>ASME Section III</u> Edition, <u>1971</u> Addenda, <u>W '72</u> Code Case <u>N/A</u> (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>2001 Edition to 2003 Addenda</u> (c) Applicable Section XI Code Case(s): <u>N/A</u> 6. Identification of Components 							<u>A</u>
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Spool (CHS-42-4D)	Power Piping	N-1141-3544	N/A	Pipe Line 2-CHS-003- 042-3	1978	Corrected	Yes
Pipe Line	First Energy	N/A	N/A	Pipe Line 2- CHS-002- 046-3	2015	Installed	No
Sockolet, 2"	WFI	N/A	N/A	Heat # 4411ANA	2015	Installed	No
Pipe, 2", SS, Sch 40S	Pexco (Ta Chen)	N/A	N/A	Heat # 539575	2015	Installed	No
Elbow, 90 deg	Alloy Stainless Products	N/A	N/A	Heat # G85	2008	Installed	No
Valve, Ball	BNL Industries	A141009-6-2	N/A	Valve ID: 2CHS-105	2015	Installed	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. 02

Report Number 3834

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CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>5-24-14</u> to <u> $10-26-15^{-}$ </u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commission NB9428 ANIB National Board Number and Endorsement Inspector's Signature

Date / 0 - 2 6 - , 20 / 5

CORRECTED COPY 2/2/15

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
1. Manufactured and certific	ed byB	NL INDUSTRIES INC., 30 INDUS		ON, CT 06066
. Manufactured for		(name and addre GY SERVICE COMPANY, 76 SO	ss of N Certificate Holder) UTH MAIN STREET, AKRO	N, OH 44308
Location of installation		(name and address o LLEY NUCLEAR POWER PLANT	(Purchaser) , 1 ROUTE 168, SHIPPING	******
. Model No., Series No., or	Type VALVE	Drawing HBV-A2-20-0113	address) RevB	CRN
ASME Code, Section III, D	livision 1		3	
Pump or valveVA	LVE Nominal Inlet size			(Code Case no.)
Material (a) valve Body <u>SA-47</u> (b) pump Casing	79 TY.304 Bonne <u>6A-479 TY</u> Cover		Iting <u>SA-153GR-6</u> 60	
(s) Certificato Holder's Serial No.	(b) National Board No.	(c) Body/Casing Serial No.	(d) Bonner/Cover Serial No.	(e) Diak Seriel No.
A141009-6-(1 THRU 3)	·····	469G	470G	468G
			, <u></u> ,,	
				·
				· · · · · · · · · · · · · · · · · · ·
		<u></u>		· · · · · · · · · · · · · · · · · · ·
	·····			····
		······································		<u> </u>
			······	
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*Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8½ × 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)

CORRECTED COPY 2/2/15

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

			Cer	tificate Hold	er's Seria	A14100	-6-(1 THRU
						NSI 150#	
. Design conditions	(pressure)	temperature)	or valve pressure class)			
. Cold working pressure	275 PSIG @100*F						
	425 PSIG	ik differential test pressure		320 8	'SIG		
Hydrostatic test	. Die						
Remarks							
		CERTIFICATION					
Design Specification cert	ified by	John W. Dingler					
Design Report certified b				P.E. State		_ Reg. no	
		CERTIFICATE OF C					
We certify that the state	ments made in this	report are correct and that	t this pump or valve o	conforma to	the rule	s for construi	ction of the
ASME Code, Section III, D	livision 1.				11/10		
N Certificate of Authoriza	tion No	N-2882	Expires		11/10	2016	
		RNL INDUSTRIES, INC.	Signed	to i vink	Incl	42	
Date 2/2/15	Name	IN Certificate Holder)	Signed ~	Le contraction de la contracti	uthorized re	presentative)	
		CERTIFICATE OF I	NOBERTIÓN				
		on issued by the National	Board of Boiler and P	ressure Ves	sel Inspe	ctors and en	nployed by
, the undersigned, hold	IIIY a vana sommee	ONECIS INSURAN	CE COMPANY				
	LYNN, MA		_ have inspected the pu	imp, or valve	, describ	ed in this Dat	a Report or
2/2/15	, and state that I	to the best of my knowledge	e and belief, the Certific	ste Holder ha	is constr	ucted this pun	np, or valve
n accordance with the A							
By signing this certificate	neither the inspector i	bivision 1. nor his employer makes any spector nor his employer sh	all be liable in any man	ner for any p	ersonal i	njury or prop	erty damag
in this Data Report. Furth or a loss of any kind arisi	ng from or connected	with this inspection.					
	_ /		A.	88342	ABA	1.05	
Date 2/2/15	Signed	prized Nuclear Inspector)	Commission	(National B	pard Numb	r and Endorseme	nt]
					_		
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(07/11)

		As Required by th	e Provisions o	REPAIRS/REP	ection XI		
NOP-CC-5703-					Repor	t Number <u>3836</u>	
1. Owner FirstEnergy Nuclear Operating Company				Date <u>10/24/2015</u>			
76 South	Main Street – Akr	on, OH 44308	_	Sheet	1	of 1	
	(ADDRESS)		1	Unit No.			
2. Plant	Beaver Valley P	ower Station (BV					
<u>P.O. Box</u>	4, Shippingport, PA (ADDRESS)	A 15077	.	Repair/Replaceme	200607 nt Organizat	932 ion P.O. No., Job No.,	etc.
3. Work Perf	ormed By <u>BVPS</u>	(NAME)	-	Type Code Symbo			
<u>P.O. Box 4</u>	I, Shippingport, PA (ADDRESS)	15077	/	Authorization No.		N/A	
			E	Expiration Date		N/A	
. Identificatio	on of System Re	esidual Heat Rem	noval (Class 2	?)			
(c) Applicab	le Edition of Section XI le Section XI Code Ca on of Components						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe (Yes or No)
ertical Heat Exchanger	Atlas Industrial Mfg.	3484	2854	2RHS-E21B	1978	Corrected	Yes
1-1/8" Nut	Nova Machine	N/A	N/A	Trace Code 7N06	2013	Installed	No
-1/8" Stud	Nova Machine	N/A	N/A	Trace Code 9R09	2014	Installed	No
Description of	of Work Replaced	stud and nuts.					

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

As Required by the Provisions of the ASME Code Section XI

Report Number 3836

NOP-CC-5703-02 Rev. 02

*Record test pressure and temperature

3528. No Code Data Report available for studs an	id nuts.
CERTIFIC	CATE OF COMPLIANCE
certify that the statements made in the report are code, Section XI.	correct and that this conforms to the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. N/A	Expiration DateN/A
Signed <u>Thomas White</u> Owner or Owner's Designee, Title	Engineer V Date <u>October 24th</u> , 20 <u>15</u>
CERTIFICATE	OF INSERVICE INSPECTION
nd employed by <u>HSB Global Standards</u> escribed in this Owner's Report during the period nd state that to the best of my knowledge and beli	The National Board of Boiler and Pressure Vessel Inspector of <u>Hartford, CT</u> have inspected the components $5^{-2} + 2 + -1 + 2$ to $(0 - 2 + 6 - 1)^{-1}$, ief, the Owner has performed examinations and taken corrective ordance with the requirements of the ASME Code. Section XI.
And employed by <u>HSB Global Standards</u> escribed in this Owner's Report during the period and state that to the best of my knowledge and beli easures described in this Owner's Report in accor- y signing this certificate neither the inspector nor honcerning the examinations and corrective measures spector nor his employer shall be liable in any main and arising from or connected with this inspection.	of <u>Hartford, CT</u> have inspected the components $5^{-} - 24^{-} - 14^{-}$ to $10^{-} - 26^{-} - 15^{-}$,

	-02 Rev. 02			Repor	t Number 3837		
1. Owner <u>F</u>	irstEnergy Nuclea	bany	Date <u>10/30/2015</u>				
76 South	<u>Main Street – Akr</u>	on, OH 44308	_	Sheet	1	of1	
2 Plant				Unit No.		2	
	Beaver Valley P (NAME)		<u>PS)</u>				
<u>P.U. DUX</u>	4, Shippingport, P/ (ADDRESS)	<u>A 15077</u>	-	Repair/Replaceme	ler #200 nt Organizati	607933 on P.O. No., Job No.,	etc.
3. Work Per	formed By <u>BVPS</u>	Mechanical Maint	enance	Гуре Code Symbo	l Stamp		Α
<u>P.O. Box /</u>	4, Shippingport, PA (ADDRESS)	15077	A	Authorization No.		N/A	
			E	xpiration Date		N/A	
. Identificati	ion of System <u>Re</u>	esidual Heat Rem	oval (Class 2)		• • • • • • • • • • • • • • • • • • •	
	on of Components	se(s). N/A	National			Corrected,	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other	Year	Removed, or	ASME Code Stampe
Component				Identification	Built	Installed	
Heat Exchanger	Atlas Industrial Mfg.	3483	2853	2RHS-E21A	1978	Installed Corrected	
Heat	1	3483 N/A	2853 N/A				(Yes or No)
Heat Exchanger Stud, 1-1/8"	Mfg.			2RHS-E21A Trace Code	1978	Corrected	(Yes or No) Yes
Heat Exchanger	Mfg. Nova Machine	N/A	N/A	2RHS-E21A Trace Code #9R09 Trace Code	1978 2014	Corrected Installed	<u>(Yes or No</u>) Yes No
Heat Exchanger tud, 1-1/8"	Mfg. Nova Machine	N/A	N/A	2RHS-E21A Trace Code #9R09 Trace Code	1978 2014	Corrected Installed	<u>(Yes or No</u>) Yes No
Heat Exchanger tud, 1-1/8" lut, 1-1/8"	Mfg. Nova Machine	N/A N/A	N/A	2RHS-E21A Trace Code #9R09 Trace Code	1978 2014	Corrected Installed	(Yes or No) Yes No
Heat Exchanger	Mfg. Nova Machine Nova Machine	N/A N/A	N/A	2RHS-E21A Trace Code #9R09 Trace Code	1978 2014	Corrected Installed	(Yes or No) Yes No

As Required by the Provisions of the	PAIRS/REPLACEMENT ACTIVITY e ASME Code Section XI
NOP-CC-5703-02 Rev. 02	Report Number <u>3837</u>
*Record test pressure and temperature	
9. Remarks <u>Code Data Report attached to previous NIS-2 #113</u> Applicable Manufacturer's Data Report	33. No Data Report available for stud and nuts.
CERTIFICATE OF C	OMPLIANCE
certify that the statements made in the report are correct and to Code, Section XI.	hat this conforms to the requirements of the ASME
Гуре Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. N/A	Expiration Date <u>N/A</u>
Signed <u>Thomas White</u> Owner or Owner's Designee, Title	Engineer V Date <u>October 30</u> , 20 <u>15</u>
CERTIFICATE OF INSERV	
I, the undersigned, holding a valid commission issued by the Na and employed by <u>HSB Global Standards</u> of <u>Hartfo</u> described in this Owner's Report during the period <u>5</u> - and state that to the best of my knowledge and belief, the Owne measures described in this Owner's Report in accordance with t	rd, CThave inspected the components $2 - 1 - 3 - 3$
By signing this certificate neither the inspector nor his employer concerning the examinations and corrective measures describe nspector nor his employer shall be liable in any manner for any kind arising from or connected with this inspection.	d in this Owner's Report. Furthermore, neither the personal injury or property damage or a loss of any
Dean L. Junen Commissio Inspector's Signature	n <u>NB9428 ANTB</u> National Board Number and Endorsement
Date, 20 /5	

		As Required by th	e Provisions of	the ASME Code S			
NOP-CC-5703-0		.				t Number <u>3838</u>	<u> </u>
1. Owner <u>Fl</u>	rstEnergy Nuclea (NAME)	<u>pany</u> [[Date <u>11/12/2015</u>				
76 South	<u>Main Street – Akr</u> (ADDRESS)	on, OH 44308	1	Sheet			
2. Plant	Beaver Valley F	ower Station (BV	1	Jnit No		2	
<u>P.O. Box 4</u>	, Shippingport, P. (ADDRESS)	A 15077		Orc Repair/Replaceme	ler #200 ent Organizati	450831 on P.O. No., Job No.,	etc.
3. Work Perfo	ormed By <u>BVPS</u>	Mechanical Maint	tenance T	ype Code Symbo	ol Stamp)N//	۹
<u>P.O. Box 4</u>	, Shippingport, PA (ADDRESS)	15077	1	uthorization No.			
4. Identificatio	on of System <u>Sa</u>	afety Injection (Cla		xpiration Date		<u>N/A</u>	
(b) Applicabl (c) Applicabl	Construction Code § e Edition of Section X e Section XI Code Ca n of Components	Utilized for Repair/R			Case <u></u>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe (Yes or No)
Globe Valve	Kerotest	DAP8-13	N/A	2SIS-319	1981	Corrected	Yes
Yoke	Flowserve	6	N/A	Trace Code: 07209	2012	Installed	No
Bonnet	Flowserve	719973-x	N/A	Trace Code: 71193	2005	Installed	Yes
Description c	of Work <u>Replaced</u>	Yoke and Bonne	t				
Tests Conduc	cted: Hydrosta Other □		natic* 🗌 N	ominal Operating		re 🛛 Exe	empt []

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3838</u>
9. Remarks <u>NPV-1 Data Report attached to previous NIS-2 Data Report No. 400. No Code Data Report available</u> Applicable Manufacturer's Data Reports to be attached
for Yoke. Code Data Report for bonnet attached but the last digit of the serial number was not recorded during
installation.
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas White</u> <u>Engineer V</u> Date <u>November 18</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underbrace{5-24-14}$ to $\underbrace{10-30-15}$,
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Commission <u>NB9428 ANTB</u> National Board Number and Endorsement
Date, 20 _/ 5

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FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES' As Required by the Provisions of the ASME Code, Section III

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	Not to Exceed	One Day's Production	1		Pg. 1 of
Manufactured and certified by	(Nome o	DTP., 1900 S. Saunders St. nd Address of NPT Cartilicate Holder)	., Raleigh, N	NC 27603	
Manufactured for First Ener	rev Corp / PO Box 61 M	Johnstown, PA 1 5007 4			
Location of Installation First E	(Nan	N and Address of Purchasor)			
Location of Installation First P	ANTEY MULICHE / DEAVE	(Name and Address)	te 168 Shipp	ingport, PA	15077
Type: SW-D-9909-(2) Rev. A	SA479 T316	N/A	N/.	' A	2005
(drawing no.)	(mal'il spec, no,)	(tensile strength)	(CF		(year buili)
ASME Code, Section III, Division		Summer, 1973	2	-	N/A
Fabricated in accordance with Con	(edition)	(eddenda dala)	(d	(688)	(Code Case no.)
only)		N/A Revision	N/A	Date	N/A
Remarks: Bonnet for Karot	est 2" 1500# Globe Valv	(no.)			
Bonact for Refor	EST 2 1500# Globe Val	·			
			S/	ALES ORDE	R: 32441
Nom. Thickness (in.) N/A	Min. design thickness	PER#4 Dia. ID (ft & in.) N/A	Length overa	II (& P
When applicable, Certificate Holder	's Data Reports are attache	d for each item of this report:		- ' '	"(ff &
Part or Appurtenance	National		Appurtenance		National
Serial Number	Board No.		ial Number		Board No.
F10063	In Numerical Order		_	in	Numerical Order
719973-3 719973-4	N/A	(26)			
719973-5	<u>N/A</u> N/A	(27)			
	IVA	(28)			
		(29)	•		
	· · · · · · · · · · · · · · · · · · ·	(31)			
		(32)			
		(33)	<u> </u>		
		(34)			
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		(36)	· · · · · · · ·		
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		(40)			
		(41)			
		(42)			
		(43)		-	
		(44)			
		(45)		•	
		(46)	·		
		(4.7)			
		(48)			
<u> </u>		(49)			
Design prossure	psi. Temp.	°F. Hydro. T			

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 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.

CORRECTED COPY 3/17/05

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

. 1

Certificate Holder's Serial Nos. 719973-3 thru 5

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CERTIFICATIO	N OF DESIGN						
Design specification certified by	P.E. State Reg. no.						
Design Report * certified by	P.E. State Reg. no.						
CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this (these) <u>PARTS</u> Conforms to the rules of construction of the ASME Code, Section III, Division 1.							
NPT Certificate of Authorization N1563	Expires 11/26/2006						
Date 3 117 1 05 Name Flowserve, Corp Signed (NPT Certificate Holder) (authorized representative)							
CERTIFICATE O	F INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>North Carolina</u> and employed by <u>HSB-CT</u> of <u>Hartford Connecticut</u> have inspected these items described in this Data Report on <u>2124105</u> , 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 <u>3117105</u> Signed (Authorized Inspector)							

		WNER'S REPO As Required by th	DRT FOR e Provisions o	REPAIRS/REP	LACEI	MENT ACT	Ίνιτγ
NOP-CC-5703-(t Number <u>3839</u>	
	(NAME)	r Operating Comp	<u>pany</u>	Date <u>10/20/2015</u>			
76 South	Main Street – Ak	ron, OH 44308	_	Sheet	1	of1	
	. ,			Unit No.		2	
2. Plant	Beaver Valley I	Power Station (BV	<u>PS)</u>				
<u>P.O. Box 4</u>	1, Shippingport, P	A 15077			200613	933	
	•	_				on P.O. No., Job No.,	
3. WORK Perfe	ormed By <u>BVPS</u>	Construction Serv	<u>/ices</u>	Type Code Symbo	ol Stamp	• <u> </u>	Α
<u>P.O. Box 4</u>	I, Shippingport, P	A 15077	·	Authorization No.		N/A	
	(ADDRESS)			Expiration Date			
4. Identificatio	on of System Q	uench Spray (Cla					
(b) Applicab (c) Applicab		(I Utilized for Repair/Rase(s): N/A		<u>V'72</u> Addenda, Code C tivity <u>2001E-2003A</u>	,ast <u></u>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Paul Munroe	1653	N/A	2QSS- PSSP138Y	1976	Removed	No
Snubber	Lisega	31500123/045	N/A	2QSS- PSSP138Y	2015	Installed	No
. Description o	of Work <u>Replace</u>	d snubber		· · · · · · · · · · · · · · · · · · ·			
. Tests Condu	Other 🗌		natic* 🗌	Nominal Operating psi Test		re 🗌 🛛 Ex	empt ⊠ °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3839</u>
9. Remarks <u>No Code Data Report available</u> . <u>Snubber supplied to ANSI B31.1 1967E-S'73A</u> . Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas White</u> <u>Nuclear Engineer V</u> Date <u>10/20/2015</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components
described in this Owner's Report during the period $5-24-14$ to $10-26-15$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Image: Description of the examination of the example of the examination of the examination of the example of the examination of the examination of the examination of the example of the examp
Date $10 - 26, 20 \frac{13}{5}$

NOP-CC-570:	3-02 Rev. 02			f the ASME Code S		ort Number <u>3841</u>	
1. Owner	FirstEnergy Nuclea	ar Operating Co.		Date 11-17-2018		11 Number 3041	
76 Sout	<u>h Main Street – Ak</u> (ADDRESS)	ron, OH 44308		Sheet	1		
2. Plant	Beaver Valley ((NAME)	Power Station (B)		onit 140		#2	
PO Box	4, Shippingport, PA (ADDRESS)	15077		Orc	der # 20	0539066 tion P.O. No., Job No.	ata
3. Work Per	rformed By <u>BVPS</u>	Construction Ser	vices -	Type Code Symbo			
<u>PO Box 4</u>	I, Shippingport, PA (ADDRESS)	15077	/	Authorization No.	<u>-</u>	N/A	
	tion of System <u>S</u>	· · · ·	Ē	xpiration Date		N/A	
		ase(s): <u>N/A</u>					
Name of	on of Components		National	Other	Vaar	Corrected, Removed,	ASME
Name of Component			National Board No.	Other Identification	Year Built		ASME Code Stamped (Yes or No)
Name of	Name of	Manufacturer	Board			Removed, or	Code Stamped
Name of Component Valve,	Name of Manufacturer	Manufacturer Serial No.	Board No.	Identification 2SWS-MOV-	Built	Removed, or Installed	Code Stamped (Yes or No)
Name of Component Valve, Butterfly Valve, Butterfly	Name of Manufacturer Henry Pratt Weir Valves &	Manufacturer Serial No. A-0027-8-1	Board No. N/A	Identification 2SWS-MOV- 103A 2SWS-MOV-	Built 1978	Removed, or Installed Removed	Code Stamped (Yes or No) Yes
Name of Component Valve, Butterfly Valve,	Name of Manufacturer Henry Pratt Weir Valves & Controls Nova Machine	Manufacturer Serial No. A-0027-8-1 1-00859-10	Board No. N/A N/A	Identification 2SWS-MOV- 103A 2SWS-MOV- 103A	Built 1978 2014	Removed, or Installed Removed Installed	Code Stamped (Yes or No) Yes Yes
Name of Component Valve, Butterfly Valve, Butterfly tuds, 1-1/4"	Name of Manufacturer Henry Pratt Weir Valves & Controls Nova Machine Products Nova Machine	Manufacturer Serial No. A-0027-8-1 1-00859-10 N/A N/A	Board No. N/A N/A N/A N/A	Identification 2SWS-MOV- 103A 2SWS-MOV- 103A Heat # 16J9 Heat # 15H6	Built 1978 2014 2015 2015	Removed, or Installed Removed Installed Installed Installed	Code Stamped (Yes or No) Yes Yes 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. 02 Report Number <u>3841</u>
 9. Remarks <u>Piping Isometric 2806.263-920-090 (120727) shows valve 2SWS-MOV103A as item 4. The N5 Code Data Report for this valve is part of System 30 package 10 (ID: 2-SR-30-10-A-SWS-3). N5 Code Data Report is on Film Number S1400; valve is given on slide #661.</u> <u>The code data report for valve 2SWS-MOV103A is attached to this NIS-2 report</u>. There are no prior NIS-2 reports. <i>Applicable Manufacturer's Data Reports to be attached</i>
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer II</u> Koma M Callo Date <u>Nov 17</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $5-24-14$ to $16-30-15$
described in this Owner's Report during the period
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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. Junior Commission <u>NB9428 ANTB</u> Inspector's Signature National Board Number and Endorsement
Date //-/8, 20 /5-

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

			<u>!</u>	Pg. 1 of <u>2</u>
	1			
	• • • •			,
1. Manufactured and certified	s by: <u>Weir Valves & (</u>	Controls USA., Inc., 29 Old Ri (name and address of I	i <u>oht Road. Ipswich MA 019:</u> N Certificate Holder)	38-1119
2. Manufactured for Firs	t Energy Corportation. Ro	ute 168. Shippingport. PA 150		ĩ
-	, (na	me and address of Purchaser) 7.	•
3. Location of installation	Beaver Valley Power Stati : (nan	on. Route 168. Shippingport, I ne and address)	PA 15077	
4. Model No., Series No., or	Type <u>TCBV</u>	Drawing 10000859-1	0 Rev. <u>5</u>	CRN <u>N/A</u>
5. ASME Code, Section III, D	ivision 1: <u>1971</u> (edition))]3	
				(0000 0200 110.)
6. Pump or Valve <u>Valve</u>	Nominal inlet size	24 Outlet size _24 (in.) (in.)		
7. Material: (a) valve Body <u>SA351</u>	CERM Bonnet SA2	40-316 Disk		
(b) pump Casing			SA351-UF8M	Bolting See Remarks
(o) humb casing	Cover	Bolting		
(a)	(b)	(c)	(d)	(•)
Certificate	National	Body/Casting	Bonnet/Cover	(e) Disk
Holder's	Board	Serial	Serial	Serial
Serial No.	No.	No.	No.	No.
				•
1-00859-10				
1-00039-10	N/A	HT#: 13223 S/N: AF177	HT #: F9K0	HT#: 13223
······································			S/N: 1	S/N: AF176
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• Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8 ½ x 11; (2) information in items 1 through 4 on this Data Report is included on each sheet; (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NPV-1 (Back - Pg. 2 of _2)
Certificate Holder's Serial No. <u>1-00859-10</u>
8. Design conditions Disc 150 psi 120 °F or valve pressure class 150
8. Design conditions <u>Disc. 150</u> psl <u>120</u> °F or valve pressure class <u>150</u> i (pressure) (temperature)
9. Cold working pressure 275 psi at 100F
10. Hydrostatic test <u>425 psi</u> . Disk differential test pressure <u>165 psi</u> .
11. Remarks:
H.H Cap Screws SA 193 Grade B&M CL 1 HT#: E111912 TR# 288C
CERTIFICATION OF DESIGN
Design specification certified by <u>Francis W. Gardner</u> P.E. State <u>PA</u> Reg. no. <u>035614-E</u>
Design report certified byN/AP.E. StateN/AReg, noN/A
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-2606 Expires 06/13/2016
Add
Date 12/11/2 Name WEIR VALVES AND CONTROLS USA, INC. Signed (8 10 00 00 00 00 00 00 00 00 00 00 00 00
(N Certificate Holder) (authorized representative)
CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and employed by
HSB GLOBAL STANDARDS of
that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or value, in accordance with the ASME Code, Section III, Division 1.
By signing the Cartificate, 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 12-2-2014 Signed 10 4 Commission NB 12715 ABAE
Date Authorized Ingreedor) Commission Not Contract Authorized Ingreedori

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(7/11)

D. <u>#2</u> Order # 200242782 Repair/Replacement Organization P.O. No., Job No., etc. ode Symbol Stamp <u>N/A</u> zation No. <u>N/A</u> on Date <u>N/A</u> n (Class 3) Addenda, <u>W '72</u> Code Case <u>N/A</u> 1 Edition to 2003 Addenda Corrected, Removed, A	ASME e Stampe
ITE Order # 200242782 Repair/Replacement Organization P.O. No., Job No., etc. ode Symbol Stamp N/A zation No. N/A ode Symbol Stamp N/A ode Symbol Stamp N/A on Date N/A Addenda, <u>W '72</u> Code Case <u>N/A Addenda, <u>W '72</u> Code Case <u>N/A Corrected, Removed, A </u></u>	
Repair/Replacement Organization P.O. No., Job No., etc. ode Symbol Stamp N/A zation No. N/A on Date N/A n (Class 3) N/A Addenda, W '72 Code Case N/A 1 Edition to 2003 Addenda Corrected, Removed, A	– – ASME e Stampe
ode Symbol Stamp <u>N/A</u> zation No. <u>N/A</u> on Date <u>N/A</u> n (Class 3) Addenda, <u>W '72</u> Code Case <u>N/A</u> 1 Edition to 2003 Addenda Corrected, Removed, A	– – ASME e Stampe
on Date <u>N/A</u> n (Class 3) Addenda, <u>W '72</u> Code Case <u>N/A</u> 1 Edition to 2003 Addenda Corrected, Removed, A	– – ASME e Stampe
n (Class 3) Addenda, <u>W '72</u> Code Case <u>N/A</u> <u>1 Edition to 2003 Addenda</u> Corrected, Removed, A	ASME e Stampe
Addenda, <u>W '72</u> Code Case <u>N/A</u> <u>1 Edition to 2003 Addenda</u> Corrected, Removed, A	e Stampe
Other Year or Code	
entification Built Installed (Yes	
SWS-188 1978 Removed	Yes
SWS-188 2015 Installed	Yes
at # 9R09 2014 Installed I	No
at # 0K12 2014 Installed	No
rovide better shutoff.	
2	at # 9R09 2014 Installed

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI Report Number 3844 NOP-CC-5703-02 Rev. 02 9. Remarks Piping Isometric 2806.262-920-623 (101904) shows valve 2SWS-188 as item 29. The N5 Code Data Report for this valve is part of System 30 package 01 (ID: 2-SR-30-01). N5 Code Data Report is on Film Number S1099; valve is given on slide #4. The code data report for valve 2SWS-18 is attached to this NIS-2 report. There are no prior NIS-2 reports. 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 N/A Expiration Date Certificate of Authorization No. Date Oct 28 , 20 15 Signed Thomas M Calko, Engineer III Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION 1 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors I and employed by _____ HSB Global Standards ____ of ____ Hartford, CT have inspected the components I 5-24-14 to 10-30-15 ł described in this Owner's Report during the period 1 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective 1 measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. 1 Т By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the T inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any I Т kind arising from or connected with this inspection. T L Commission NB9428 ANI National Board Number and Endorsement Inspector's Signature 20 /5 11-2-Date

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 <u>2</u>

		Valves and Controls L (name and	address	of N Certificate Ho	ider)	MA 01950
2. Manufactured for	First Energy Oracia a				1001)	
	First Energy Corporation,	Route 168, Shippingp	<u>ort, PA 1</u>	5077		
		(name a	and addre	ess of Purchaser)		
3. Location of installat	ion Reaver Valloy Dever					
sector vi motana(ion_Beaver Valley Power	station, Route 168, St	lippingpc	ort, PA 15077		
		(r	ame and	d address)		
4. Model No., Series No		Drawing 1000148	0-10	Rev0)2	CRN <u>N/A</u>
5. ASME Code, Sectior	III, Division 1: <u>1971</u> (edition)	Winter 1 (addenda da	<u>972</u>	3		N/A
• •			ne)	(class)		(Code Case no.)
6. Pump or Valve <u>Val</u>	ve Nominal inlet s	ize <u>20</u> Outle (in.)	et size	20 (in.)		
Matoriali Badu Da	054 0500	· •		()		
7. Material: Body <u>SA</u>	351 CF8M Bon	net <u>SA479 316</u>	Disk	SA351 CF8M	Bolting	See Remarks
(a)	(–)					
Cert.	(b)	(c)		(d))	(e)
	Nat'i	Body		Bonn		Disk
Holder's	Board	Serial		Seria		
Serial No.	No.	No.		No.		Serial
1-01480-20					1	No.
1-01-00-20	N/A	<u>HT</u> .#:151	66	HT.#:26	1695	HT. #: 15178
		S/N.#: AF		TR# 47870		S/N.#: AH53
					SILLIT L	<u>0/11.#. AD3</u>
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* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

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

Certificate Holder	s Serial No. <u>1-01480-20</u>
8. Design conditions75 psi100 °F or valve pressure class 150 (pressure) (temperature)	-
9. Cold working pressure275 psi at 100°F	
10. Hydrostatic test psi. Disk differential test pressure 165 psi	
11. Remarks: Hex Cap Screw SA 453 Gr 660 CL A HT# : 55979-6V TR# T60	
· · · ·	
CERTIFICATION OF DESIGN	
Design specification certified by <u>Jay A. Crawford</u> P.E. State <u>PA</u> Reg. no. <u>35192-E</u>	
(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 construct Section III, Division 1.	tion of the ASME Code,
N Certificate of Authorization No. N-2606 Expires 6-13-16	00
Date 929115 Name WEIR VALVES & CONTROLS USA INC. Signed	BORD 1
	Salp
(N Certificate Holder) (authorized representation	
CERTIFICATE OF INSPECTION	· ·
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors Province of <u>ME</u> and employed by <u>HSBCT</u> of <u>Hartford, CT</u> have inspected the pump, or valv Report on <u>9-29-15</u> , and state that to the best of my knowledge and belief, the Certificate Hold pump, or valve, in accordance with the ASME Code, Section III, Division 1.	e, described in this Data
	a the equipment
By signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concernin described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for an property damage or loss of any kind arising from or connected with this inspection.	y personal injury or
Date 9-29-15 Signed Authorized Inspector. (Nat'l. Bd. (incl. endorsements) and state	or prov. and no.)
J	
(1) For manually operated valves only.	

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

NOP-CC-5703-	-02 Rev. 02			<u></u> _	Repo	rt Number 3845	
1. Owner <u>F</u>	irstEnergy Nuclea	r Operating Co.	_ ſ	Date <u>10-26-2015</u>			
<u>76 South</u>	Main Street – Aki (ADDRESS)	ron, OH 44308		Sheet			
2. Plant	Beaver Valley F	Power Station (BV		Jnit No.		#2	
<u>PO Box 4</u>	, Shippingport, PA	15077		Ord	<u>ler # 200</u>	0539622	
3. Work Perl	formed By <u>BVPS</u>	Construction Service	<u>vices</u> T	ype Code Symbo		tion P.O. No., Job No.,	
PO Box 4	<u>Shippingport</u> , PA	(NAME)					
<u> </u>	(ADDRESS)			uthorization No.			· · · · · · · · · · · · · · · · · · ·
4. Identificati	on of System Se	ervice Water Svst					
(c) Applicat	ble Edition of Section X ble Section XI Code Ca DN of Components	se(s): <u>N/A</u>	eplacement Activi	ity 2001 Edition to 20	003 Adder	nda	
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, Butterfly	Henry Pratt	A-0034-1-7	N/A	2SWS-185	1978	Removed	Yes
Valve, Butterfly	Weir Valves & Controls	1-01480-10	N/A	2SWS-185	2015	Installed	Yes
Studs, 1-1/8"	Nova Machine Products	N/A	N/A	Heat # 9R09	2014	Installed	No
Nuts, 1-1/8"	Nova Machine Products	N/A	N/A	Heat # 0K12	2014	Installed	No
Description	of Work <u>Replaced</u>	l old valve with ne	ew design valv	e to provide bette	er shuto	<u>ff.</u>	
Description					Pressu		·····

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. 02 Report Number <u>3845</u>
9. Remarks <u>Piping Isometric 2806.262-920-919 (101902) shows valve 2SWS-185 as item 23. The N5 Code Data</u> <u>Report for this valve is part of System 30 package 04 (ID: 2-SR-30-04-SWS). N5 Code Data Report is on Film</u> <u>Number S1261; valve is given on slide #238.</u>
The code data report for valve 2SWS-185 is attached to this NIS-2 report. There are no prior NIS-2 reports. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III fonds Mute</u> Date <u>Oct 26</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-24-14$</u> to <u>$10-30-75^{-1}$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Dam Joint Commission D89428 ANIB Inspector's Signature Commission D89428 ANIB
Date $1/-2-$, 20 $1/5$

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

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Pg. 1 of _2

1. Manufactured and c	ertified by: <u>Weir Valv</u>	es and Controls U: (name and a	<u>SA Inc., 2</u> ddress o	9 Old Right Road	<u>i Ipswich. </u> Ider)	MA 01938
2 Monufacturad for 1				•	,	
z. manulactored for	First Energy Corporation. Rout					
				ss of Purchaser)		
3. Location of installati	on_Beaver Valley Power Stati	ол. Route 168. Shi	nogenigg	, PA 15077		•
			me and a			
4. Model No., Series No	o., or Type_TCBVC)rawing_10001480	<u>-10</u>	Rev()2	CRN <u>N/A</u>
5. ASME Code, Section	III. Division 1: 1971	Winter 19	70		•	· · ·
•	(edition)	(addenda dat		(class)	•	N/A (Code Case no.)
6. Pump or Valve <u>Val</u>	ve Nominal inlet size	20 Outlet	-t			•
		Outlet (in.)	: 5120	<u>20</u>	•	
-			e			
7. Material: Body <u>SA</u>	351 CF8M Bonnet	_SA479 316	Disk .	SA351 CF8M	Bolting	See Remarks
(a)	(b)	(c)		(d)	(e)
Cert.	Nati	Body		Bon		Disk
Holder's	Board	Serial		Ser		Serial
Serial No.	No.	No.		Na		No.
1-01480-10	N/A					-
	N/A	<u>HT. #:151</u>		HT.#:26		HT. #: 15178
<u></u>		<u>S/N.#: A</u> H	51	_TR# 4787	<u>) S/N# 1</u>	S/N.#: AH50
		- <u></u>				
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* Supplemental information In form of lists, sketches, or drawings may be used provided (1) size 8 ½ x 11, (2) Information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

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

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

. Design conditions275psi100 °F or valve pressure class 150 (pressure) (temperature)
. Cold working pressure275 psi at 100°F
0. Hydrostatic test425 psi. Disk differential test pressure 165 psi
1. Remarks:Hex Cap Screw SA 453 Gr 660 CL A HT# : 55979-6V TR# T60
1. Remarks:
CERTIFICATION OF DESIGN
Design specification certified by <u>Jav A. Crawford</u> P.E. State <u>PA</u> Reg. no. <u>35192-E</u>
(when applicable)
Design report certified byN/AP.E. State _N/AReg. noN/A
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. <u>N-2606</u> Expires <u>6-13-16</u>
Date 125/15 Name WEIR VALVES & CONTROLS USA INC. Signed
(N Certificate Holder) (authorized Vepresentative)
CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Bolier and Pressure Vessel Inspectors and the State or Province of <u>ME</u> and employed by <u>HSBCT</u> of <u>Hartford, CT</u> have inspected the pump, or valve, described in this Data Report on <u>9-25-2015</u> , and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.
By signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the 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.
2 25-245 signed / Klan Commission NB (2715 ABAE, MEBOO)
Date (-03 000 Signed (Authorized Inspector) (Nat'l, Bd. (Incl. endorsements) and state or prov. and no.)

(1) For manually operated values only.

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Certificate Holder's Serial No. 1-01480-10

]	-02 Rev. 02				Repor	t Number 3846	
1. Owner <u>F</u>	irstEnergy Nuclea	r Operating Co.	_	Date <u>11-24-2015</u>			
76 South	<u>Main Street – Akr</u> (ADDRESS)	on, OH 44308	-	Sheet	1	of2	
				Unit No.		#2	
2. Plant	Beaver Valley F	ower Station (BV	<u>PS)</u>				
<u>PO Box 4</u>	, Shippingport, PA	15077		Ord	<u>er # 200</u>	0555096	
	• • • • • • •					on P.O. No., Job No.,	
3. WORK Per	formed By <u>BVPS</u>	(NAME)	<u>/ices</u>	Type Code Symbo	l Stamp	• <u> </u>	Α
<u>PO Box 4</u>	<u>Shippingport, PA</u>	15077		Authorization No.		N/A	
	(ADDRESS)			Expiration Date			
4. Identificati	ion of System Se	ervice Water Syst		-System (Class 3)			
	le Construction Code <u>A</u>			tion, <u>1971</u> Addenda, tivity <u>2001 Edition to 20</u>		Code Case <u>N/A</u>	
	ble Section XI Code Ca		eplacement Ac	ivity 2001 Edition to 20	03 Adder	ida	
	on of Components						
		r					
						Corrected,	
Name of	Name of		National				1
	i name ur	Manufacturer	Board	Other	Year	Removed,	ASME
Component	Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Removed, or Installed	ASME Code Stamped (Yes or No)
Component Valve, Butterfly						or	Code Stamped
Valve,	Manufacturer	Serial No.	No.	Identification	Built	or Installed	Code Stamped (Yes or No)
Valve, Butterfly Valve, Butterfly	Manufacturer Henry Pratt Weir Valves &	Serial No. D-0014-4-1	No. N/A	Identification 2SWS-MOV- 116A 2SWS-MOV-	Built 1978	or Installed Removed	Code Stamper (Yes or No) Yes
Valve, Butterfly Valve,	Manufacturer Henry Pratt Weir Valves & Controls Nova Machine	Serial No. D-0014-4-1 1-01365-30	No. N/A N/A	Identification 2SWS-MOV- 116A 2SWS-MOV- 116A	Built 1978 2015	or Installed Removed Installed	Code Stamped (Yes or No) Yes Yes
Valve, Butterfly Valve, Butterfly tuds, 1-1/4"	Manufacturer Henry Pratt Weir Valves & Controls Nova Machine Products Trust Manufacturing	Serial No. D-0014-4-1 1-01365-30 N/A N/A	No. N/A N/A N/A	Identification 2SWS-MOV- 116A 2SWS-MOV- 116A Heat # 9N44 Heat # NN16	Built 1978 2015 2014 2012	or Installed Removed Installed Installed	Code Stamped (Yes or No) Yes Yes No
Valve, Butterfly Valve, Butterfly Studs, 1-1/4"	Manufacturer Henry Pratt Weir Valves & Controls Nova Machine Products Trust Manufacturing of Work Replaced	Serial No. D-0014-4-1 1-01365-30 N/A N/A	No. N/A N/A N/A N/A	Identification 2SWS-MOV- 116A 2SWS-MOV- 116A Heat # 9N44	Built 1978 2015 2014 2012	or Installed Removed Installed Installed Installed	Code Stampe (Yes or No) Yes Yes No

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Report Number <u>3846</u>
9. Remarks <u>Piping Isometric 2806.263-920-090 (120727) shows valve 2SWS-MOV116A as item 2. The N5 Code Data Report for this old valve is part of System 30 package 10 (ID: 2-SR-30-10-SWE-4). N5 Code Data Report for the old valve is on Film Number S1357; valve is given on slide #869. <u>The code data report for the new valve is attached to this NIS-2 report. There are no prior NIS-2 reports.</u> <u>Applicable Manufacturer's Data Reports to be attached</u></u>
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III</u> forme M Date <u>Nov 24</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period $\underbrace{5 \sim 24 - 14}_{-14}$ to $\underbrace{10 \sim 30 - 15}_{-14}$,
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. Jean August Commission Inspector's Signature Commission
Date, 20 _/ 5^-

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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 <u>2</u>

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1. Manufactured and certif	ied by: <u>Weir Va</u>	ives and Controls USA Inc (name and address	29 Old Right Road Ipswich, MA of N Certificate Holder)	01938
2. Manufactured for <u>First</u>	Energy Corporation. Ro	ute 168. Shippingport. PA 1: (name and addri	5077 ess of Purchaser)	
3. Location of installation_	Beaver Valley Power Sta	ition. Route 168. Shippingpo (name and		
4. Model No., Series No., o	r Type <u>TCBV</u>	Drawing_10001365-30	Rev. <u>01</u> C	RN <u>N/A</u>
5. ASME Code, Section III,	Division 1: <u>1971</u> (edition)	Winter 1972 (addenda date)	<u>3</u> (N/A. Code Case no.)
6. Pump or Valve <u>Valve</u>	Nominal inlet size	e <u>30</u> Outlet size (in.)	<u>30</u> (in.)	
7. Material: Body <u>SA351</u>	CF8M Bonn	et <u>SA240 316 L</u> Dis	ik <u>SA351_CF8M</u> Bolting	See Remarks
(a) Cert. Holder's Serial No.	(b) Nat'i Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
1-01365-30	N/A ·	HT. #:1522 S/N.#: AG310	HT.#:H2P7 TR# 47080 S/N# 2	HT. #: 14359 S/N.#: AG309

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

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

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

	Certificate Holder's Serial No. 1-01365-30
8. Design conditions <u>275</u> psi <u>100</u> °F or valve pressure class (pressure) (temperature)	150
9. Cold working pressure275 psi at 100°F	
10. Hydrostatic test <u>425</u> psi. Disk differential test pressure <u>165</u>	ρsi
11. Remarks:Hex Cap Screw SA 193 Gr B8M CL 1 HT# : 253388 TR# 304C	
CERTIFICATION OF DESIGN	
Design specification certified by <u>Francis W. Gardner</u> P.E. State <u>PA</u>	
Design report certified byN/AP.E. StateP.E. StateP.E.	Reg. no <u>_N/A</u>
	and the second states at the ADME Code
We certify that the statements made in this report are correct and that pump or valve conforms to Section III, Division 1.	the rules for construction of the ASME Code,
	es <u>6-13-16</u>
alater	ANR-
DateNameWEIR VALVES & CONTROLS USA INC	
(N Certificate Holder)	(authorized aprésentative)
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressu Province of <u>ME</u> and employed by <u>HSBCT</u> of <u>Hartford, CT</u> have inspect Report on <u>9-18-2015</u> , and state that to the best of my knowledge and belie 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 described in this Data Report. Furthermore, retither the inspector nor his employer shall be liable property damage or loss of any kind arising from or connected with this inspection.	ted the pump, or varye, described in this Data f, the Certificate Holder has constructed this I or implied, concerning the equipment in any manner for any personal injury or
Date 9-18-2015 Signed Commission Commission (Authorized Inspector) (Net'l. Bd. (Incl.	endorsements) and state or prov. and no.)
(Autorized Inspector) (Net I. Du. (INA)	
(1) For manually operated values only.	

(1) For manually operated valves only.

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NOP-CC-5703-	02 Rev 02	•		of the ASME Code S			
		ar Operating Comp	anv	Date <u>10/20/2015</u>		t Number <u>3851</u>	
	(NAME)			<u>10/20/2010</u>			
76 South	Main Street – Ak (ADDRESS)	ron, OH 44308	-	Sheet	1	of 1	
	(ADDRESS)			Unit No.			
2. Plant	Beaver Valley ((NAME)	Power Station (BV	PS)				
<u>P.O. Box 4</u>	4, Shippingport, F	A 15077			200613	934	
						on P.O. No., Job No.,	
	ormed By <u>BVPS</u>	Construction Serv	<u>rices</u>	Type Code Symbo	ol Stamp	•N/.	<u>A</u>
<u>P.O. Box 4</u>	I, Shippingport, P	A 15077		Authorization No.		N/A	
	(ADDRESS)			Expiration Date		N/A	
. Identificatio	on of System <u>R</u>	ecirculation Spray	(Class 2)				
. (a) Applicabl	e Construction Code	ASME Section III	1971 Edition. W	/72 Addenda Code (Case		
		(I Utilized for Repair/Re					
(c) Applicab	le Section XI Code Ca	ase(s): N/A					
. Identificatio	on of Components	3					
			Mational			Corrected,	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	ASME Code Stampe (Yes or No)
Snubber	Paul Munroe	1669	N/A	2RSS- PSSP465X	1976	Removed	No
Snubber	Lisega	31500156/004	N/A	2RSS- PSSP465X	2015	Installed	No
		snubber					
Description of	of Work <u>Replace</u>						
Description o	of Work <u>Replace</u>		* <u>*</u> *		·		
Description o			natic*	Nominal Operating	l Pressu	re 🗍 Exe	empt 🕅

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. 02 Report Number <u>3851</u>
9. Remarks <u>No Code Data Report available. Snubber supplied to ANSI B31.1 1967E-S'73A.</u> Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas White</u> <u>10</u> <u>Nuclear Engineer V</u> Date <u>10/20/2015</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-24-14$</u> to <u>$10-26-15$</u> ,
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspector's Signature Commission <u>JB9427 AJTB</u> National Board Number and Endorsement
Date, 20 15

NOP-CC-5703-	02 Rev. 02			the ASME Code			
1. Owner <u>F</u>		ar Operating Comp	oany	Date <u>10/19/201</u>		rt Number <u>3852</u>	
76 South	Main Street – Al (ADDRESS)	kron, OH 44308		Sheet	1	of 1	
2 Plant	Paguar Vallau		1	Unit No.		2	
	(NAME)	Power Station (BV	<u>PS)</u>				
<u>P.O. Box 4</u>	4, Shippingport, F (ADDRESS)	PA 15077	-	Repair/Replace	200613	3893 ion P.O. No., Job No.,	etc
3. Work Perf	ormed By <u>BVPS</u>	Construction Serv	<u>vices</u> 1	ype Code Sym			
<u>P.O. Box 4</u>	, Shippingport, P	A 15077	A	uthorization No	·_	<u>N/A</u>	
	(ADDRESS)			xpiration Date			
4. Identificatio	on of System F	eedwater (Class 2)				
(c) Applicab	le Edition of Section 3 le Section XI Code C on of Components	.,	eplacement Activ	ity <u>2001E-2003A</u>			·
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber	Lisega	61265/14	N/A	2FWS- PSSP002A	1993	Removed	No
Snubber	Lisega	31500150/006	N/A	2FWS- PSSP002A	2015	Installed	No
Description of	of Work <u>Replace</u>	d snubber					
Tests Condu	cted: Hydrosta Other [ominal Operatir		re 🗌 🛛 Exe	empt 🛛

OD 00 5703 03 Day 03	Report Number <u>3852</u>
DP-CC-5703-02 Rev. 02	
Remarks No Code Data Report available. Snubb	Der supplied to ANSI B31.1 1967E-S'73A. Previous NIS-2 Data sturer's Data Reports to be attached
eport #518.	
CERTIFICA	ATE OF COMPLIANCE
and the first sector model in the report are of	arrest and that this conforms to the requirements of the ASME
certify that the statements made in the report are co ode, Section XI.	orrect and that this conforms to the requirements of the ASME
ype Code Symbol Stamp <u>N/A</u>	
ertificate of Authorization NoN/A	Expiration DateN/A
igned <u>Thomas White</u>	Nuclear Engineer V Date <u>10/19/2015</u> , 20 <u>15</u>
Owner or Owner's Designee, Title	
CERTIFICATE C	OF INSERVICE INSPECTION
the undersigned, holding a valid commission issue	ed by the National Board of Boiler and Pressure Vessel Inspecto
nd employed by <u>HSB Global Standards</u> of	f <u>Hartford, CT</u> have inspected the components
escribed in this Owner's Report during the period	5-24-14 to 10-26-15-
nd state that to the best of my knowledge and belie	of, the Owner has performed examinations and taken corrective
easures described in this Owner's Report in accord	dance with the requirements of the ASME Code, Section XI.
	and the second
y signing this certificate neither the inspector nor hi	is employer makes any warranty, expressed or implied,
oncerning the examinations and corrective measure	es described in this Owner's Report. Furthermore, neither the
	nner for any personal injury or property damage or a loss of any
nd arising from or connected with this inspection.	
	A = A = A = A = A
pear A. lpreh	Commission <u>NB 9427 ANTB</u> National Board Number and Endorsement
Inspector s Signature	
ate <u>10-26-</u> , 20 <u>/-5</u>	

	02 Rev. 02				Repor	t Number 3853	
1. Owner <u>F</u>	irstEnergy Nuclea	ar Operating Comp	bany	Date <u>10/19/2015</u>			
_76 South	<u>Main Street – Ak</u>	ron. OH 44308		Sheet	1	of 1	
	(ADDRESS)			Unit No.			
2. Plant	Beaver Valley I	Power Station (BV				<u> </u>	
<u>P.O. Box</u>	4, Shippingport, P (ADDRESS)	A 15077	-	Repair/Replaceme	200613	894 on P.O. No., Job No.,	etc.
3. Work Perf	ormed By <u>BVPS</u>	Construction Serv	<u>vices</u>	Гуре Code Symbo			
<u>P.O. Box 4</u>	4. Shippingport, P	A 15077	A	Authorization No.		N/A	
	(ADDRESS)		E	xpiration Date			
. Identificati	on of System <u>F</u>	eedwater (Class 2)				
(b) Applicat (c) Applicat							
Name of	Name of	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampe
Component	Manufacturer			Identification	Duiit	Instaneu	
Component Snubber	Lisega	61265/15	N/A	2FWS- PSSP002B	1993	Removed	
		61265/15 31500150/001		2FWS-			(Yes or No
Snubber	Lisega		N/A	2FWS- PSSP002B 2FWS-	1993	Removed	(Yes or No No
Snubber	Lisega		N/A	2FWS- PSSP002B 2FWS-	1993	Removed	(Yes or No No
Snubber	Lisega	31500150/001	N/A	2FWS- PSSP002B 2FWS-	1993	Removed	(Yes or No) No

9. Remarks No Code Data Report available. Snubber supplied to ANSI B31.1 19 Applicable Manufacturer's Data Reports to be attached Report #517. CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date Signed	Report Number <u>3853</u> 67E-S'73A. Previous NIS-2 Data
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 Code, Section XI. Type Code Symbol Stamp N/A Expiration Date Signed Thomas White Vowner or Owner's Designee, Nuclear Engineer V Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Board employed by HSB Global Standards of Hartford, CT described in this Owner's Report during the period Sourcest described in this Owner's Report during the period Sourcestreements or By signing this certificate neither the inspector nor his employer makes any warrar concerning the examinations and corrective measures described in this Owner's Report in accordance with the requirements or By signing this certificate neither the inspector nor his employer makes any warrar concerning the examinations and corrective measures described in this Owner's Report in accordance with the requirements or inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	37E-S'73A. Previous NIS-2 Data
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 Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Query Code Symbol Stamp N/A Certificate of Authorization No. N/A Query Code Symbol Stamp N/A Certificate of Authorization No. N/A Query Code Symbol Stamp N/A Certificate of Authorization No. N/A Certificate of Authorization No. N/A Qu	
CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date Signed Signed Thomas White Vowner or Owner's Designee, Title Nuclear Engineer V CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by HSB Global Standards of Hartford, CT described in this Owner's Report during the period State that to the best of my knowledge and belief, the Owner has performed eximasures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warrar concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
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Code, Section XI. Type Code Symbol Stamp <u>N/A</u> Certificate of Authorization No. <u>N/A</u> Expiration Date Signed <u>Thomas White</u> <u>Nuclear Engineer V</u> Owner or Owner's Designee, Title <u>CERTIFICATE OF INSERVICE INSPECTION</u> I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5 - 2 Y - 1Y$</u> and state that to the best of my knowledge and belief, the Owner has performed ex- measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warrance concerning the examinations and corrective measures described in this Owner's Report in and the period in this Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his employer makes any warrance concerning the examinations and corrective measures described in this Owner's Report in any manner for any personal injury or private the inspection.	
Certificate of Authorization No. <u>N/A</u> Expiration Date Signed <u>Thomas White</u> <u>Nuclear Engineer V</u> Owner or Owner's Designee, Title <u>Nuclear Engineer V</u> CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$S - 2 \cdot 4 - 14$</u> and state that to the best of my knowledge and belief, the Owner has performed ex- measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warrance concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	o the requirements of the ASME
Certificate of Authorization No. <u>N/A</u> Expiration Date Signed <u>Thomas White</u> <u>Nuclear Engineer V</u> Owner or Owner's Designee, Title <u>Nuclear Engineer V</u> CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$S - 2 \cdot 4 - 14$</u> and state that to the best of my knowledge and belief, the Owner has performed ex- measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warrance concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
Signed <u>Thomas White</u> <u>Here</u> <u>Nuclear Engineer V</u> Owner or Owner's Designee, Title <u>CERTIFICATE OF INSERVICE INSPECTION</u> I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5 - 2 Y - 1Y$</u> and state that to the best of my knowledge and belief, the Owner has performed ex measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warran concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
Signed <u>Thomas White</u> <u>Nuclear Engineer V</u> Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5 - 2 Y - 1Y$</u> and state that to the best of my knowledge and belief, the Owner has performed ex- measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warrance concerning the examinations and corrective measures described in this Owner's Report in any manner for any personal injury or kind arising from or connected with this inspection.	N/A
Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Bo and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$\mathcal{S} - \mathcal{A} \mathcal{Y} - I \mathcal{Y}$</u> and state that to the best of my knowledge and belief, the Owner has performed ex- measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warrance concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
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I, the undersigned, holding a valid commission issued by the National Board of Board employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5 - 2 \ 9 - 14$</u> and state that to the best of my knowledge and belief, the Owner has performed ex measures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his employer makes any warran concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
I, the undersigned, holding a valid commission issued by the National Board of Board employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5 - 2 \frac{y}{24} - 14$</u> and state that to the best of my knowledge and belief, the Owner has performed ex measures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his employer makes any warran concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
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and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> described in this Owner's Report during the period <u>$5-2$ $\frac{7-14}{2}$</u> and state that to the best of my knowledge and belief, the Owner has performed ex measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warran concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
described in this Owner's Report during the period $5 - 2 \frac{y-14}{2}$ and state that to the best of my knowledge and belief, the Owner has performed ex measures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his employer makes any warrant concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	ler and Pressure Vessel Inspecto
and state that to the best of my knowledge and belief, the Owner has performed ex measures described in this Owner's Report in accordance with the requirements o By signing this certificate neither the inspector nor his employer makes any warran concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
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concerning the examinations and corrective measures described in this Owner's R inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	ty everygood or implied
inspector nor his employer shall be liable in any manner for any personal injury or kind arising from or connected with this inspection.	
kind arising from or connected with this inspection.	
0 0 1 1 1 1 1 1 1 1 1 1	soperty damage of a loss of any
Commission NB9428A	
	JTR
Dean Signature Commission NB9428A	imber and Endorsement
\mathcal{V}	
Date $10 - 26, 20 15$	

F	ORM NIS-2 O	WNER'S REPC		REPAIRS/REPI		MENT ACT	Ίνιτγ
NOP-CC-5703-0	2 Rev. 02					t Number <u>3854</u>	
1. Owner <u>Fi</u>	rstEnergy Nuclea	r Operating Comp	any	Date <u>10/19/2015</u>			
76 South	Main Street – Ak	ron, OH 44308	-	Sheet	1	of1	
		_		Unit No.		2	10 11
2. Plant	<u>Beaver Valley I</u> (NAME)	Power Station (BVI	<u>PS)</u>				
<u>P.O. Box 4</u>	A. Shippingport, P (ADDRESS)		Repair/Replaceme	200613 nt Organizati	895 on P.O. No., Job No.,	etc.	
3. Work Perfo	ormed By <u>BVPS</u>	Construction Serv	ices_	Type Code Symbo	l Stamp	<u> </u>	Α
<u>P.O. Box 4</u>	, Shippingport, P	A 15077		Authorization No.		N/A	
				Expiration Date		<u>N/A</u>	
		eedwater (Class 2					
(b) Applicabl		(I Utilized for Repair/Re		<u>N′72</u> Addenda, Code C xtivity <u>2001E-2003A</u>	ase <u></u>		
6. Identificatio	n of Components	5					
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	61256/24	N/A	2FWS- PSSP003A	1993	Removed	No
Snubber	Lisega	31500156/003	N/A	2FWS- PSSP003A	2015	Installed	No
7. Description c	of Work <u>Replace</u>	d snubber			1		
3. Tests Condu	Other 🗌			Nominal Operating psi Test		re 🗌 Ex	empt ⊠ °F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI Report Number 3854 NOP-CC-5703-02 Rev. 02 9. Remarks No Code Data Report available. Snubber supplied to ANSI B31.1 1967E-S'73A. Previous NIS-2 Data Applicable Manufacturer's Data Reports to be attached Report #552. CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp <u>N/A</u> Certificate of Authorization No. N/A Expiration Date N/A Nuclear Engineer V Date <u>10/19/2015</u>, 20 <u>15</u> Signed Thomas White 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 T and employed by ______HSB Global Standards _____ of _____Hartford, CT____ have inspected the components I described in this Owner's Report during the period 5-24-14 to 10-26-15 I T and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective I measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. I I I By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, L concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the I inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any 1 I kind arising from or connected with this inspection. T 1 Commission NB9428 ANIB T Inspector's Signature National Board Number and Endorsement Т T Date 10-26- . 2015

	02 Rev. 02			of the ASME Code Se	_		
1. Owner F		ar Operating Comp	201	Data 10/24/2015		t Number 3855	
	(NAME)	a operating comp		Date <u>10/24/2015</u>	<u></u>		
76 South	<u> Main Street – Ak</u>	ron, OH 44308		Sheet	1 (of 1	
	(ADDRESS)		-	Unit No			
2. Plant	Beaver Valley	Power Station (BV	PS)			<u> </u>	
<u>P.O. Box 4</u>	4, Shippingport, F	A 15077			200613	896	
	(ADDRESS)			Repair/Replaceme	nt Organizati	on P.O. No., Job No.,	etc.
3. Work Perf	ormed By <u>BVPS</u>	Construction Serv	<u>vices</u>	Type Code Symbo	l Stamp)N/.	Α
<u>P.O. Box 4</u>	<u>1, Shippingport, P</u>	A 15077		Authorization No.		N/A	
	(ADDRESS)			Expiration Date			
. Identificati	on of System F	eedwater (Class 2		-			
		ASME Section III (I Utilized for Repair/Re		<u>V'72</u> Addenda, Code C	ase <u></u>		
	le Section XI Code Ca		epiacement Act	10012-2003A			
. Identificatio	on of Components						
			K 1 1			Corrected,	
Name of	Name of	Manufacturer	National Board	Other	Year	Removed, or	ASME
		Serial No.				í	Code Stampe
Component	Manufacturer	Ocharivo.	No	Identification	Built	Installed	
Snubber	Lisega	61256/25	N/A	ldentification 2FWS- PSSP003B	Built 1993	Installed Removed	Code Stampe (Yes or No) No
				2FWS-			(Yes or No)
Snubber	Lisega	61256/25	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber	Lisega	61256/25	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber	Lisega	61256/25	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber	Lisega	61256/25	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber Snubber	Lisega Lisega	61256/25 31500156/002	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber Snubber	Lisega	61256/25 31500156/002	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber	Lisega Lisega	61256/25 31500156/002	N/A	2FWS- PSSP003B 2FWS-	1993	Removed	(Yes or No) No
Snubber	Lisega Lisega of Work <u>Replace</u>	61256/25 31500156/002 d snubber	N/A N/A	2FWS- PSSP003B 2FWS-	1993 2015	Removed	(Yes or No) No

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT A As Required by the Provisions of the ASME Code Section XI	ACTIVITY
NOP-CC-5703-02 Rev. 02 Report Number 3	3855
9. Remarks <u>No Code Data Report available. Snubber supplied to ANSI B31.1 1967E-S'73A. F</u> Applicable Manufacturer's Data Reports to be attached Report #551.	Previous NIS-2 Data
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requiren Code, Section XI. Type Code Symbol Stamp <u>N/A</u>	nents of the ASME
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u> Signed <u>Thomas White</u> <u>Certificate</u> <u>Nuclear Engineer V</u> Date <u>10/26/</u> Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspect described in this Owner's Report during the period <u>$5 - 2 \ 4 - 1 \ 4$</u> to <u>$10 - 2$</u> and state that to the best of my knowledge and belief, the Owner has performed examinations a measures described in this Owner's Report in accordance with the requirements of the ASME C	ted the components $26 - 13^{}$, and taken corrective
By signing this certificate neither the inspector nor his employer makes any warranty, expressed concerning the examinations and corrective measures described in this Owner's Report. Further inspector nor his employer shall be liable in any manner for any personal injury or property dama kind arising from or connected with this inspection.	ermore, neither the age or a loss of any
Date, 20 /5	

NOP-CC-5703-	00 0 00						
					Repor	Number <u>3856</u>	
1. Owner <u>F</u>	InstEnergy Nuclea (NAME)	ar Operating Comp	bany	Date <u>10/24/2015</u>			
70.000							
<u>_76 Soutr</u>	<u>Main Street – Ak</u> (ADDRESS)	ron, OH 44308		Sheet			
0 Diant				Unit No.		2	
2. Plant	(NAME)	Power Station (BV	<u>PS)</u>			*	
<u>P.O. Box</u>	4, Shippingport, F	A 15077	_		200613	<u>897</u>	
	(ADDRESS)			Repair/Replaceme	nt Organizati	on P.O. No., Job No.,	etc.
3. Work Perl	formed By <u>BVPS</u>	Construction Serv	<u>vices</u> 1	Гуре Code Symbo	l Stamp	<u> </u>	Α
P O Box	<u>4, Shippingport, P</u>	A 15077					
<u></u>	(ADDRESS)	<u>A 19071</u>		Authorization No.			
				Expiration Date	•	<u>N/A</u>	
Identificati	ion of System <u>F</u>	eedwater (Class 2	2)				
j. (a) Applicab	le Construction Code	ASME Section III	<u>1971 Edition, W</u>	72 Addenda, Code C	ase		
		KI Utilized for Repair/R				• ,	
(c) Applicat	ble Section XI Code Ca	ase(s): N/A					
. Identificati	on of Components	3					
		1				· · · · · · · · · · · · · · · · · · ·	
						Corrected,	
Name of	Name of	Manufacturer	National Board	Other	Year	Removed, or	ASME Code Stampe
Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	
							(Yes or No)
Snubber	Lisega	61254/108	N/A	2FWS- PSSP006	1993	Removed	(Yes or No) No
Snubber	Lisega	61254/108	N/A	2FWS-	1993		
Snubber Snubber	Lisega Lisega	61254/108 31500039/003	N/A N/A	2FWS-	1993 2015		
				2FWS- PSSP006 2FWS-		Removed	No
				2FWS- PSSP006 2FWS-		Removed	No
				2FWS- PSSP006 2FWS-		Removed	No
				2FWS- PSSP006 2FWS-		Removed	No
Snubber		31500039/003		2FWS- PSSP006 2FWS-		Removed	No
Snubber	Lisega	31500039/003		2FWS- PSSP006 2FWS-		Removed	No
Snubber	Lisega of Work <u>Replace</u>	31500039/003	N/A	2FWS- PSSP006 2FWS-	2015	Removed	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. 02 Report Number <u>3856</u>	
9. Remarks <u>No Code Data Report available. Snubber supplied to ANSI B31.1 1967E-S'73A. Previous NI</u> Applicable Manufacturer's Data Reports to be attached Report #515.	S-2 Data
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requirements of the Code, Section XI.	ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>	
Signed <u>Thomas White</u> <u>Nuclear Engineer V</u> Date <u>10/26/2015</u> , 20 1 Owner or Owner's Designee, Title	15
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the com described in this Owner's Report during the period <u>$5^{-2}4^{-1}4^{-1}$</u> to <u>$16^{-2}6^{-1}5^{-1}$</u> and state that to the best of my knowledge and belief, the Owner has performed examinations and taken co measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section	ponents , prrective
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neit inspector nor his employer shall be liable in any manner for any personal injury or property damage or a los kind arising from or connected with this inspection.	her the
Dean S. Junk Inspector's Signature Commission <u>NB9428 ANTB</u> National Board Number and Endorsement	
Date <u>10-26-</u> , 20 <u>15</u>	

NOP-CC-5703-		WNER'S REP(As Required by th	DRT FOR e Provisions	REPAIRS/REP of the ASME Code S	ection XI		
		ar Operating Comp		Date <u>10/20/2015</u>		t Number <u>3857</u>	
	(NAME)		<u> </u>	Dute <u> 10/20/2010</u>			
76 South	Main Street – Ak	ron, OH 44308	-	Sheet	1	of1	
	_			Unit No.		2	
2. Plant	Beaver Valley (NAME)	Power Station (BV	<u>PS)</u>				
<u>P.O. Box 4</u>	4. Shippingport, F (ADDRESS)		Repair/Replacem	200613	898 on P.O. No., Job No.,	elc	
. Work Perf	ormed By <u>BVPS</u>	Construction Serv	<u>vices</u>	Type Code Symb			<u>'A</u>
<u>P.O. Box 4</u>	4, Shippingport, P	A 15077		Authorization No.		N/A	
	· · · · ·			Expiration Date		N/A	
dentificatio	on of System <u>F</u>	eedwater (Class 2)	· · · · · · · · · · · · · · · · · · ·			
(c) Applicab	ne Section XI Code Ca on of Components Name of Manufacturer		National Board No.	Other	Year	Corrected, Removed, or	ASME Code Stampe
Snubber	Lisega	61256/26	N/A	2FWS- PSSP012	Built 1993	Installed Removed	(Yes or No No
				F33F012			
		31500156/009	N/A	2FWS-	2015	Installed	No
Snubber	Lisega			PSSP012			
Snubber	Lisega						
Snubber	Lisega						
	Lisega of Work <u>Replace</u>						

	R REPAIRS/REPLACEMENT ACTIVITY s of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02	Report Number <u>3857</u>
9. Remarks <u>No Code Data Report available. Snubber sur</u> Applicable Manufacturer's Dat Report #519.	Dplied to ANSI B31.1 1967E-S'73A. Previous NIS-2 Data ta Reports to be attached
CERTIFICATE C	OF COMPLIANCE
I certify that the statements made in the report are correct a Code, Section XI.	and that this conforms to the requirements of the ASME
Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Signed	_ Expiration Date <u>N/A</u> <u>Nuclear Engineer V</u> Date <u>10/20/2015</u> , 20 <u>15</u>
CERTIFICATE OF INS	SERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the and employed by <u>HSB Global Standards</u> of <u>HSB Global Standar</u>	5-24-14 to $10-26-15$, Owner has performed examinations and taken corrective
By signing this certificate neither the inspector nor his emp concerning the examinations and corrective measures des inspector nor his employer shall be liable in any manner for kind arising from or connected with this inspection.	cribed in this Owner's Report. Furthermore, neither the r any personal injury or property damage or a loss of any
Date <u>10-26-</u> , 20 <u>/5</u>	

F	ORM NIS-2 O	NNER'S REP		REPAIRS/REP		MENT ACT	Ίνιτγ
NOP-CC-5703-	02 Rev. 02					t Number 3862	
1. Owner <u>F</u>	irstEnergy Nuclear	r Operating Com	pany	Date 12/07/2018			
	(((),)))))			2			
76 South	Main Street – Akr (ADDRESS)	on, OH 44308	_	Sheet	1	of2	
	(- ,			Unit No.		2	
2. Plant	Beaver Valley P	ower Station (BV	(PS)				
<u>P.O. Box</u>	4. Shippingport, P/ (ADDRESS)	A 15077		Or Repair/Replacent	der #200	0607563 ion P.O. No., Job No.,	etc
3. Work Perf	formed By <u>BVPS (</u>	Mechanical Maint	tenance_	Type Code Symb			
<u>P.O. Box 4</u>	4. Shippingport, PA	15077		Authorization No.		N/A	
	(ADDRESS)			Expiration Date			
4. Identificati	on of System <u>Se</u>	ervice Water (Cla	<u>ss 3)</u>				
(b) Applicat (c) Applicat	le Construction Code <u>S</u> ble Edition of Section X ble Section XI Code Ca on of Components	Utilized for Repair/R		<u>S'74</u> Addenda, Code C ctivity <u>2001E-2003A</u>	ase <u>N/A</u>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Duo-Check Valve	Crane Nuclear	E0301	N/A	2SWS-106	2011	Removed	Yes
Duo-Check Valve	Crane Nuclear	E5950	N/A	2SWS-106	2015	Installed	Yes
7. Description	of Work <u>Replaced</u>	valve.					
8. Tests Condu	Other 🗌		matic* 🗌	Nominal Operatin	-	re 🛛 Ex	empt [] °F

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3862</u>
9. Remarks <u>Code Data Report attached. Previous NIS-2 Data Report No. 3429.</u> Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas White</u> <u>Line Engineer V</u> Date <u>December 7th</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-x4-14$</u> to <u>$10-30-15$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Jaaling from or connected with this inspection. Inspector's Signature Commission National Board Number and Endorsement
Date <u>12-9-</u> , 20 <u>13</u>

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

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Pg. 1 of 2

1.	Manufactured and o	certified by <u>CRANE</u>	Nuclear, Inc., 860 I	Remington Bo	ulevard, Bolin dress of N Certific	gbrook, IL 604	440	
2.	Manufactured for	First Energy 1003 Bro	at Street, Suite 10		PA 15906-24			
3.	Location of installati	on Beaver Valley N	uclear Power Plant	1 Route 168 (name)	Shippingport, and eddress)	PA 15077		
4.	Model No., Series N	o., or Type15 :	SEF-X04 Dra	awing	CB02839	Rev(<u> </u>
5.	ASME Code, Sectio	n III, Division 1:	1974 (editlan)	Summer 19 (eddenda date		3 (class)	(Coc	N/A le Case no.)
6.	Pump or valve	Valve	Nomina	l inlet size	30"	Outlet size	8	30"
7.	Material:							
	(a) valve Body (b) pump Casting	SA216 WCB	Bonnet Cover		Disk <u>SA</u> Bolting	216 WCB	Bolting _	See Page 2
	(a) Cert. Holder's Serial No. E5950	(b) Nat'l Board No. N/A	(c) Body/Cas Serial No. E5951	-	(d) Bonnet/C Serial No. N/A		(e Di Se E5952 8	sk rial o,
						·		
	······							
· · · · · · · · · · · · · · · · · · ·								

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

			Cert	ificate Holder's Serial	No	E5950
8	Design conditions	200	300	or valve pressure	class	
•		(pressure	(temperature)	_		
9 .	Cold working pressure	285				
10.	Hydrostatic test	450	Disk differential	test pressure	315	
11.	Remarks: Stop Pin F	Retainer - SA479 Type :	316 Heat Number 1214	10, Heat Code CBW		·····
	Hinge Pin Retainer-SA4	79 Type 316 1 pc. Heat	# E81115, Heat Code	BWP & 1 pc. Heat# 23	9527, Heat Co	ode AUH
	CNI SO# 44923-01					
		CER		GN		
Desi	gn Specifications certified	by Walter Jos	eph Parker Jr.	P.E. State PA	Reg. no.	29003-E
	an Report certified by		·	P.E. State N/A	Reg. no.	N/A
			FICATE OF COMPLIA			
We d	certify that the statements of ASME Code, Section III,	made in this report are o Division 1.	correct and that this pu	mp or valve conforms	to the rules fo	r construction
N Ce	ertificate of Authorization N	0	N-2899	Expires Septem	ber 9, 20 <u>17</u>	
Date	06/29/15Na	me <u>CRANE</u> (N Certi	Nuclear, Inc. ficate Holder)		tholized represente r Bregovy – Q	
			IFICATE OF INSPECT			
l, the	undersigned, holding a va HSB Global S	alid commission issued Standards	by the National Board	of Boiler and Pressure Hartf	Vessel and end ord, CT	mployed by
have	inspected the nump, or va	alve, described in this D	ata Report on		29/1 <u>5</u>	· · · · · ·
	state that to the best of my the ASME Code, Section I		the Certificate Holder i	as constructed this pu	imp, or valve,	in accordance
n	igning this certificate, neith ponent described in this Da personal injury or property	ata Report. Furthermol	e, neither the inspector	r nor his employer sha	ii de liadie in a	erning the ny manner for
	, j	WFR /L				
Date			Commissions		989 ANIC Number and Endors	

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. 02		· · · · · · · · · · · · · · · · · · ·		Repo	rt Number 3865	5
1. Owner <u>F</u>	irstEnergy Nuclea	ar Operating Co.		Date 10-22-2015		······	
76 South	<u>Main Street - Ak</u> (ADDRESS)	ron, OH 44308		Sheet	1	of5 #2	5
2. Plant	Beaver Valley	Power Station (B	VPS)	omit No		<u>#2</u>	·········
PO Box 4	, Shippingport, P/ (ADDRESS)	A 15077		Orc Repair/Replacem	der # 20 ent Organiza	0584749 tion P.O. No., Job No	o., etc.
3. Work Perl	formed By <u>BVPS</u>	Construction Se	rvices	Type Code Symb	ol Stam	pN	//A
PO Box 4,	Shippingport, PA (ADDRESS)	15077		Authorization No.		N/A	
				Expiration Date	•••••	N/A	
4. Identificati	on of System	Service Water Sys	stem, BV-2-30	-System (Class 3))		
		ASME Section III		tion, <u>1971</u> Addenda ivity <u>2001 Edition to 2</u>			A
	ole Section XI Code C				000 Adde	nua	
6. Identificatio	on of Component	5					
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipe Line	First Energy	N/A	N/A	Pipe Line 2-SWS-008- 779-3	2014	Corrected	No
Flange, blind, 8"	Energy & Process	N/A	N/A	Heat # SEV	2014	Removed	No
Flange, weld neck, 8"	Coffer Mfg	N/A	N/A	Heat # YVF PC6	2014	Installed	No
Elbow, 90 deg, 8"	Weld Bend	N/A	N/A	Heat # DY0105	2015	Installed	No
Pipe, CS, Sch 40, 8"	US Steel	N/A	N/A	Heat # C47012	2012	Installed	No
Elbow, 90 deg, 8"	Weld Bend	N/A	N/A	Heat # BX0379	2015	Installed	No

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

As Required by the Provisions of the ASME Code Section XI $% \mathcal{A}$

NOP-CC-5703-02		As Required by the				lumber <u>3865</u>	I
Elbow, 90 deg, 8"	Weld Bend	N/A	N/A	Heat # D80339	2014	Installed	No
Tee, Reducing, 8"x8"x6"	Weld Bend	N/A	N/A	Heat # J3L6330	2015	Installed	No
Reducer, 8"x6"	Tube Forgings of America	N/A	N/A	Heat # 55LN	2014	Installed	No
Pipe line	First Energy	N/A	N/A	Pipe Line 2- SWS-006- 780-3	2015	Installed	No
Pipe, CS, Sch 40, 6"	US Steel	N/A	N/A	Heat # C47012	2012	Installed	No
Elbow, 90 deg, 6"	Weld Bend	N/A	N/A	Heat # C20151	2014	Installed	No
Valve, Ball, 6"	BNL Industries	A141009-23-5	N/A	Functional Location: 2SWS-733	2015	Installed	Yes
Valve, Check, 6"	BNL Industries	A141009-22-3	N/A	Functional Location: 2SWS-734	2015	Installed	Yes
Pipe line	First Energy	N/A	N/A	Pipe Line 2- SWS-006- 781-3	2015	Installed	No
Pipe, CS, Sch 40, 6"	US Steel	N/A	N/A	Heat # C47012	2012	Installed	No
Elbow, 90 deg, 6"	Weld Bend	N/A	N/A	Heat # C20151	2014	Installed	No
Elbow, 90 deg, 6"	Weld Bend	N/A	N/A	Heat # C20151	2014	Installed	No
Valve, Ball, 6"	BNL Industries	A141009-23-8	N/A	Functional Location: 2SWS-741	2015	Installed	Yes

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-0	12 Rev. 02				Report Number <u>3865</u>						
Valve, Check, 6"	BNL Industries	A141009-22-7	N/A	Functional Location: 2SWS-742	2015	Installed	Yes				
Pipe Support	First Energy	N/A	N/A	2SWS-PSR- 1230	2015	Installed	No				
Pipe Support	First Energy	N/A	N/A	2SWS-PSR- 1231	2015	Installed	No				
Pipe Support	First Energy	N/A	N/A	2SWS-PSR- 1232	2015	Installed	No				
Plate, 1/4"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # B4V8687	2015	Installed	No				
Plate, 3/4"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # A4S2236-01	2014	Installed	No				
Plate, 1"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # 5502707-02	2015	Installed	No				
Anchor, 1/2"	Hilti Inc.	N/A	N/A	N/A	2014	Installed	No				
Anchor, 3/4"	Hilti Inc.	N/A	N/A	N/A	2014	Installed	No				
Tube Steel, 4"x4"x3/8"	Hanna Steel	N/A	N/A	Heat # B416002	2015	Installed	No				
Tube Steel, 4"x4"x3/8"	Hanna Steel	N/A	N/A	Heat # SE1086	2015	Installed	No				
Bar, 1"x2"	Lukens Steel	S/N: 2	N/A	Heat # R3182	1991	Installed	No				

FORM NIS-	-2 OWNER'S REPORT FOR I As Required by the Provisions o	REPAIRS/REPLACEMENT AC	ΤΙνιτγ
NOP-CC-5703-02 Rev. 02		Report Number 386	<u>55</u>
C	Hydrostatic* X Pneumatic* Dther Pressure 150 Record test pressure and temperature	Nominal Operating Pressure 🛛 psi Test Temp. <u>77</u>	Exempt 🗌 °F
		S-030-142-3 by First Energy in 2014, d check valves 2SWS-734, 2SWS-74 aports to be attached	
	CERTIFICATE OF	COMPLIANCE	
I certify that the statemen Code, Section XI.	its made in the report are correct an	d that this conforms to the requireme	nts of the ASME
Type Code Symbol Stam	p <u>N/A</u>	1) (p = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	
Certificate of Authorizatio		Expiration Date <u>N/A</u> Date <u>Oct 22</u>	, 20 <u>15</u>
	CERTIFICATE OF INSE	RVICE INSPECTION	
and employed byHS described in this Owner's and state that to the best	SB Global Standards of Har Report during the period 5 of my knowledge and belief, the Ow	National Board of Boiler and Pressur tford, CT have inspected - 24 - 14 to $10 - 2wher has performed examinations andth the requirements of the ASME Coordination$	the components $2 - 15$, I taken corrective
concerning the examination	ons and corrective measures descrier shall be liable in any manner for a ected with this inspection.	ver makes any warranty, expressed o bed in this Owner's Report. Furtherm ny personal injury or property damag sion <u>JB9425 AJTB</u> National Board Number and Endors	nore, neither the e or a loss of any

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	;
1. Manufactured and certified by	BNL				RK RÓAD, VERNO	DN, CT 06066	
2. Manufactured for	FIRST ENERGY	SERVICE CO	Ineme and address MPANY, 76 SOU		icate Holder) I STREET, AKRON	i, OH 44308	
3. Location of installation	BEAVER VALL	EY NUCLEAR	Inama and address of P POWER PLANT,		E 168, SHIPPING	PORT, PA 15077	
4. Model No., Series No., or Type	VALVE	Drawing	(name and ac CBV-95-60-0112	Rev.	В	CRN	
5. ASME Code, Section III, Division 1	1971 (edition)		₩72		3		
5. Pump or valveVALVE	_ Nominal Inlet size	6"	dende (if applicable) (det 		(class) 6*	(Code Case no.))
7. Material (a) valve Body <u>SA-105</u> (b) pump Casing	Bonnet <u>SA-105</u> Cover	– Disk <u>S</u> – Bolting –	A-479 TY.316 Bolt	ling <u>SA-</u>	<u>453GR.6</u> 60		
(s) Certificate Holder's Serial No.	(b) National Board No.	Body/ Se	c) Casing Irial Io,	8	(d) connet/Cover Serial No.	(c) Disk Serial No.	
A141009-22-(3 THRU 6)	······································	54	5G	5	46G/546G-1	549G	
A141009-22-(7)		479	IG-2	5	46G/546G-1	549G	
A141009-22-(8)		479	G-2		546G-1	549G	
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*Supplemental information in the form of fists, eletches, or drawings may be used provided: (1) size is 8½ × 11; (2) information in items 1 through 4 on this Date Report , is included on each elect; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NPV-1 (Back - Pg. 2 of _2_)

				Certificate Holder's Se	erial No
.			or valve pressure (ANSI 150#
Design conditions	(pretsure)	(temperature)			
. Cold working pressure	275 PSIG @100*1	<u>F</u>			
. Hydrostatic test	450 PSIG . 0	Disk differential test pressure		320 PSIG	·····
, Remarks					
		CERTIFICATION	OF DESIGN		
	.	John W. Dingler		PE State	Reg. no. 0 <u>62-038</u>
Design Specification certi					Reg. no
		CERTIFICATE OF C	OMPLIANCE		
We certify that the state ASME Code, Section III, D	ments made in this ivision 1.	s report are correct and that		11	ules for construction of /10/2016
We certify that the state ASME Code, Section III, D N Certificate of Authoriza	ments made in this ivision 1. tion No	s report are correct and that N-2882	t this pump or val	11	
We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/5/15$	ments made in this ivision 1. tion No Name	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF I	t this pump or val Expires SignedNSPECTION	11 Startin BLA (authorited	/10/2016
We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/5/15$	ments made in this ivision 1. tion No Name	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi	t this pump or val Expires Signed NSPECTION Board of Boiler at	11 Startin BLA (authorited	/10/2016
We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date 4/8/15	ments made in this ivision 1. tion No Name ing a valid commis	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF I ssion issued by the National ONECIS INSURAN	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected th	11 Sturrn BLA (authorize nd Pressure Vessel in e pump, or valve, des	/10/2016
Ve certify that the state ASME Code, Section III, D N Certificats of Authoriza Date 4/E/15 , the undersigned, hold	ments made in this ivision 1. tion No Name ing a valid commis	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF I ssion issued by the National ONECIS INSURAN	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected th	11 Sturrn BLA (authorize nd Pressure Vessel in e pump, or valve, des	/10/2016
We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $\frac{4}{8}$	ments made in this ivision 1. tion No Name ing a valid commis LYNN, MA , and state tha	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF I ssion issued by the National ONECIS INSURAN ONECIS INSURAN	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected the e and belief, the Cent	11 Sturrn BLA (authorize nd Pressure Vessel In e pump, or valve, desc ttificate Holder has con	/10/2016 ad representative) spectors and employed cribed in this Data Repo netructed this pump, or v
Ne certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/8/15$ I, the undersigned, hold I, the undersigned, hold I I, the undersigned, hold I I, the undersigned, hold I I accordance with the AS	ments made in this ivision 1. tion No Name ing a valid commis LYNN, MA , and state tha iME Code, Section II meither the inspecto	s report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF I ssion issued by the National ONECIS INSURAN ONECIS INSURAN et to the best of my knowledge II, Division 1. or nor his employer makes any	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected the e and belief, the Cel (warranty, express)	11 Stutton BLA (authorize and Pressure Vessel In: e pump, or valve, desc ntificate Holder has con	/10/2016 ad representative) spectors and employed cribed in this Data Repo- natructed this pump, or v ing the component desce
We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/8/15$ I, the undersigned, hold of in accordance with the AS By signing this certificate in this Date Report. Furth	ments made in this ivision 1. tion No Name ing a valid commis LYNN, MA , and state tha SME Code, Section II neither the inspecto ermore, neither the	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF II ssion issued by the National ONECIS INSURAN at to the best of my knowledge II, Division 1. or nor his employer makes any inspector nor his employer sh	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected the e and belief, the Cel (warranty, express)	11 Stutton BLA (authorize and Pressure Vessel In: e pump, or valve, desc ntificate Holder has con	/10/2016 ad representative) spectors and employed cribed in this Data Repo- natructed this pump, or v ing the component desce
ASME Code, Section III, D N Certificate of Authoriza Date 4/8/15	ments made in this ivision 1. tion No Name ing a valid commis LYNN, MA , and state tha SME Code, Section II neither the inspecto ermore, neither the	s report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF II ssion issued by the National ONECIS INSURAN at to the best of my knowledge II, Division 1. or nor his employer makes any inspector nor his employer sh	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected the e and belief, the Cel (warranty, express)	11 Shurth Bin (authorize and Pressure Vessel in e pump, or valve, dese ntificate Holder has con ed or implied, concerni manner for any person	/10/2016 ad representative) spectors and employed cribed in this Data Repo- natructed this pump, or v ing the component desce
We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/8/15$ I, the undersigned, hold of in accordance with the AS By signing this certificate in this Date Report. Furth	ments made in this ivision 1. tion No Name ing a valid commis LYNN, MA , and state the SME Code, Section II neither the inspecto ermore, neither the ing from or connecte	s report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF II ssion issued by the National ONECIS INSURAN at to the best of my knowledge II, Division 1. or nor his employer makes any inspector nor his employer sh id with this inspection.	t this pump or val Expires Signed NSPECTION Board of Boiler at CE COMPANY have inspected the e and belief, the Cel (warranty, express)	11 Shuff M B LA (authorize and Pressure Vessel In- the pump, or valve, desc and or implied, concerning menner for any person WB 92 4/1 (/10/2016 ad representative) spectors and employed cribed in this Data Repo- natructed this pump, or v ing the component desce

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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
Manufactured and certified by	BNL	INDUSTRIES IN	IC., 30 INDUSTR			I, CT 06066
Manufactured for	FIRST ENERGY	' SERVICE COM	(name and address (IPANY, 76 SOUT	H MAIN STREE		OH 44308
		in	eme and address of Pu	urchaeer)		
Location of Installation	BEAVER VALL	EY NUCLEAR P	OWER PLANT, 1		HIPPINGPC	ORT, PA 15077
. Model No., Series No., or Type 🗕	VALVE	DrawingGB	V-82-60-0112	Rev	C	_ CRN
ASME Code, Section III, Division 1	1971		₩72		3	
	(edition)	[Adden	via (il applicable) (data	(d	iaes)	(Code Case no.)
. Pump or valveVALVE	Nominal inlet size	6"	Outlet size	6"		
Material (a) valve Body <u>SA-105</u> (b) pump Casing	Bonnet <u>SA-105</u> Cover	Disk <u>SA-</u> Bolting	<u>479 TY.3</u> 16 Bolti 	ing <u>SA-453GR.6</u>	60	
(s) Certificate	(b) National	(c)		(d)		(e)
Holder's	Board	Body/Ca Serie	ine a B	Bonnet/Co Serial	ver	Disk Seria)
Serial No.	No.	No.		No.		No.
A141009-23-(5)		479G-	-2	547G-1		27H
A141009-23-(6)		479G-	.2	547G/547G	j-1	27H-1
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* Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 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.

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

			Ce	tificate Holde	er's Seria	No. 41410	09-23-(5 thru
					1A	NSI 150#	
. Design conditions	(pressure)	(temperature)	or valve pressure class	· (
. Cold working pressure	275 PEIC @100*F						
. Hydrostatic test	450 PSIG	k differential test pressure		320 F	PSIG		
. Remarks							
		CERTIFICATION (OF DESIGN				
Design Specification certi Design Report certified b		John W. Dingler				Reg. no. 04 Reg. no.	
ASME Code, Section III, D	ivision 1. tion No		Expires		11/10/		
Date 418/15	Name	INDUSTRIES, INC.	Signed St	Liven D	thorized re	//) presentative)	
		CERTIFICATE OF I	NSPECTION				
, the undersigned, hold	ing a valid commissie	on issued by the National ONECIS INSURANC	Board of Boiler and P	ressure Vesa	el Inspe	ctors and er	nployed by
	LYNN, MA		have inspected the pu	mp, or valve,	, describ	ed in this Da	ta Report on
/ ¹	, and state that t	o the best of my knowledge			s constru	icted this pur	πp, or valve,
4/8/15 in accordance with the AS By signing this certificate in this Data Report. Furth or a loss of any kind arisin	SME Code, Section III, C neither the inspector n ermore, neither the ins	or his employer makes any pector nor his employer sha	all be liable in any man	implied, con ner for any po 924/	ersonal ir	njury or prop	nt described erty damage

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Manufactured and certifi	ed by	BNL	INDUSTR	IES INC.,	30 INDUSTR	RIAL PA	RK ROAD, VERNO	N, CT 05066
				(ni	eme end address	of N Certi	ficate Holder)	
Manufactured for		FIRST ENERGY	SERVICE	COMPA	NY, 76 SOUT	TH MAI	N STREET, AKRON	I, OH 44308
Manulactured for					and address of P			
1		BEAVER VALL	EY NUCLE	AR POW	ER PLANT	1 ROUT	TE 168, SHIPPINGP	ORT. PA 15077
Location of installation .					iname and ad			
·· · · · · · · · · · · · · · · · · · ·		VALVE		GRV-F	2-60-0112		С	,
Model No., Series No., or	туре		Drawing			Rev,		CRN
		1971			W72		3	
ASME Code, Section III, E	Division 1 📃	(edition)						16 de marco - 1
		(90:001)			if applicable) (dat	e i]	(cista)	(Code Case no.)
Pump or valveVA		minal inlet size	(5*	- Outlet size		6"	
Material								
(a) valva BodyS/	-105 Bo	nnet SA-105	Disk	SA-475	TY.316 Bolt	ina SA	453GR.660	
(b) pump Casing	Co		Boltin					
(a)		b)	_	(c)			(d)	(0)
Certificate Holder's		ional ard	8	ody/Casin Serial	0	l	Bonnet/Cover Serial	Disk Serial
Serial No.		0.		No.			No.	No.
A141009-23-(7)		<u></u>		479G-2			547G	27H
A141009-23-(8)				479G-2	_		547G/122H	27H
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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

*Supplemental information in the form of lists, sketches, or drawings may be used provideck (1) size is BV₂ × 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.

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

			Ce	ertificate Hold	ers Seru	el No. 🛄	41009-23-(7 th
8. Design conditions	(pressure)	(temperature)	or valve pressure clas		A	NSI 150#	
). Cold working pressure	275 PSIG @100*	<u>F</u>					
). Hydrostatic test	450 PSIG	Disk differential test pressure		320	PSIG		
I. Remarks							
		CERTIFICATION O	OF DESIGN				
Design Specification certifi Design Report certified by		John W. Dinglar		P.E. State . P.E. State .			
		CERTIFICATE OF CO		conforms to	the rule:	s for cons	struction of th
SME Code, Section III, Div Certificate of Authorizeti	vision 1. ion No	s report are correct and that		Steere	11/10		struction of th
ASME Code, Section III, Div N Certificate of Authorizati Date <u>4/14/15</u>	vision 1. Ion No Name	s report are correct and that N-2882 BNL INDUSTRIES, INC. (N Centificate Helder) CERTIFICATE OF IN Islon issued by the National I	this pump or valve of this pump or valve of this pump or valve of this pump. Expires	Steere	11/10	2016	
ASME Code, Section III, Div N Certificate of Authorizati Date <u>4/14/15</u>	vision 1. Ion No Name	s report are correct and that N-2882 BNL INDUSTRIES, INC. (N Centificate Helder) CERTIFICATE OF IN Islon Issued by the National I ONECIS INSURANC	this pump or valve of Expires Signed Signed SPECTION Board of Boller and P & COMPANY	Steen in Pressure Vess	11/10. schorized re sei Inspe	ctors and	employed by
ASME Code, Section III, Di N Certificate of Authorizati Date 4/14/15 I, the undersigned, holdin of 4/14/15 in accordance with the ASM By signing this certificate n	vision 1. Ion No Name ng a valid commis LYNN, MA , and state the ME Code, Section II either the inspecto more, neither the i	s report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Helder) CERTIFICATE OF IN Islon issued by the National I ONECIS INSURANC INS	this pump or valve of Expires	Pressure Vess ump, or valve, ate Holder ha	11/10/ schortsed re sel Inspe , describ s constru constru	2016	i employed by Deta Report or pump, or valve

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F	ORM NIS-2 O	WNER'S REP As Required by t	ORT FOR	REPAIRS/REP			ΓΙVITY
NOP-CC-5703-0	2 Rev. 02					rt Number <u>3867</u>	
1. Owner <u>Fi</u>	rstEnergy Nuclea	ar Operating Co.		Date <u>11-5-2015</u>			
76 South	<u>Main Street – Ak</u> (ADDRESS)	ron, OH 44308	_	Sheet			
2. Plant	Beaver Valley	Power Station (B	VPS)			<u><u><u><u></u></u><u><u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u></u>	
<u>PO Box 4,</u>	Shippingport, PA (ADDRESS)	15077		 Repair/Replacem	der <u># 20</u> ent Organiza	0585208 lion P.O. No., Job No.	, etc.
3. Work Perfo	ormed By <u>BVPS</u>	Construction Ser	rvices	Type Code Symb	ol Stam	p <u> </u>	/A
<u>PO Box 4,</u>	Shippingport, PA	15077		Authorization No.		N/A	
				Expiration Date		N/A	
4. Identificatio	on of System S	ervice Water Sys	tem, BV-2-30	<u>)-System (Class 3)</u>)		
6. Identificatio	e Section XI Code C n of Components Name of	Manufacturer	National Board	Other	Year	Corrected, Removed, or	ASME Code Stamped
Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	(Yes or No)
Spool (SWS-114-1A)	Power Piping	2-SWS- 101902-2	N/A	Pipe Line 2- SWS-020- 114-3	1977	Corrected	Yes
Weldolet, 20"x8"	WFI Nuclear Products	N/A	N/A	Heat # 7241ANF1	2014	Installed	No
Pipe Line	First Energy	N/A	N/A	2-SWS-008- 922-3	2015	Installed	No
Elbow, 90 deg, 8"	Weld Bend	N/A	N/A	Heat # D80339	2014	Installed	No
Elbow, 90 deg, 8"	Weld Bend	N/A	N/A	Heat # BX0379	2014	Installed	No
² ipe, CS, 8", Sch 40	US Steel	N/A	N/A	Heat # C47012	2012	Installed	No

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

Report Number 3867 NOP-CC-5703-02 Rev. 02 Heat # Elbow, 90 2014 Installed No N/A N/A Weld Bend D80339 deg, 8" Heat # Elbow, 90 No 2015 Installed N/A N/A Weld Bend DY0105 deg, 8" Tee, Heat # 2015 Installed No N/A N/A Reducing, Weld Bend J3L6330 8"x8"x6" 2-SWS-006-2015 Installed No N/A N/A Pipe Line First Energy 923-3 Heat Pipe, CS, 6", 2012 Installed No N/A N/A **US Steel** #C47012 Sch 40 Heat # Elbow, 90 2014 Installed No N/A N/A Weld Bend C40348 deg, 6" Check Valve, 2015 Installed Yes 2SWS-332 **BNL Industries** A141009-22-5 N/A 6" Yes 2015 Installed 2SWS-333 N/A **BNL Industries** A141009-23-7 Ball Valve, 6" 2-SWS-006-2015 Installed No N/A N/A Pipe Line First Energy 926-3 Heat # Reducer. 2015 Installed No N/A N/A Weld Bend 688AN PC2 8"x6" Heat Pipe, CS, 6", No 2012 Installed N/A N/A US Steel #C47012 Sch 40 Check Valve, 2SWS-334 2015 Installed Yes A141009-22-4 N/A **BNL Industries** 6" N/A 2SWS-335 2015 Installed Yes A141009-23-6 Bail Valve, 6" **BNL Industries** 2SWS-2015 Installed No N/A N/A First Energy Pipe Support **PSR1233** 2SWS-2015 Installed No N/A N/A Pipe Support First Energy **PSR1234**

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

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-0	02 Rev. 02				Report	Number <u>3867</u>	
Pipe Support	First Energy	N/A	N/A	2SWS- PSR1235	2015	Installed	No
Plate, CS, 1/4"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # B4V8687-04	2015	Installed	No
Plate, CS, 3/4"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # 4S2236-01	2014	Installed	No
Anchor, 1/2"	Hilti Inc	N/A	N/A	N/A	2014	Installed	No
Anchor, 3/4"	Hilti Inc	N/A	N/A	N/A	2014	Installed	No
Tube Steel, 4"x4"x3/8"	Hanna Steel	N/A	N/A	Heat # B406590	2014	Installed	No
Tube Steel, 4"x4"x3/8"	Hanna Steel	N/A	N/A	Heat # B416002	2015	Installed	No
Plate, CS, 1"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # 5502707-02	2015	Installed	No
Plate, CS, 1"	Nucor (Kloeckner Metals)	N/A	N/A	Heat # 3508746-01	2014	Installed	No
Bar, CS, 1"	Lukens Steel	2	N/A	Heat # R3182	1991	Installed	No
Description stalling Flex N	of Work <u>Pipe line</u> Iod piping and pip	<u>2-SWS-020-114</u> be supports.	-3 (spool SWS	-114-1A) was corr	ected b	y adding a w	eldolet and
. Description <u>astalling Flex N</u> . Tests Condu	icted: Hydrosta	<u>e supports.</u>	matic* 🗍 N	ominal Operating		e 🛛 Exe	eldolet and empt [] F

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3867</u>
9. Remarks <u>Piping Isometric 2806.262-920-919 (101902) shows pipe line 2-SWS-020-114-3 (spool SWS-114-1A),</u> <u>The N5 Code Data Report for this spool is part of System 30 package 04 (ID: 2-SR-30-04-SWS). N5 Code Data</u> <u>Report is on Film Number S1261 and the spool is given on slide #243.</u>
Code data reports for the following valves are attached to this NIS-2 report: 2SWS-332, 2SWS-333, 2SWS-334, 2SWS-335.
Note: Hydrostatic pressure test completed on pipe section that will not be pressurized during in service leak test due to check valve location. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u> Signed <u>Thomas M Calko, Engineer III</u> <u>N/A</u> Date <u>Nov 5</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>5^{-2}, 4^{-1}, to <u>$10-30-15^{-3}$</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.</u>
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 / (- J , 20 / J

				Pg. 1 of_
1. Manufactured and certified by	BNL	INDUSTRIES INC., 30 INDUS	TRIAL PARK ROAD, VERN	ON, CT 06066
2. Manufactured for	FIRST ENERGY	SERVICE COMPANY, 76 SOL		N, OH 44308
3. Location of installation	BEAVER VALL	(name and address of EY NUCLEAR POWER PLANT	1 ROUTE 168, SHIPPING	PORT, PA 15077
4. Model No., Series No., or Type	VALVE	CBV-85-60-0112	address) RevB	CRN
5. ASME Code, Section III, Division 1	1971	W72	3	
5. Pump or valveVALVE	(edition)	(Addends (if applicable) (c 6" Outlet si	C1	(Code Case no.)
7. Materia) (a) valve Body <u>SA-105</u> (b) pump Casing	Bonnet <u>SA-105</u> Cover	Disk <u>SA-479 TY.3</u> 16 gc Bolting	olting <u>SA-453GR.6</u> 60	
(a) Certificate Holder's Serial No.	(b) Nationa) Board No.	(c) Body/Cesing Serial No.	(d) Bonnet/Cover Serial No.	(e) Diak Serial No.
A141009-22-(3 THRU 6)		545G	546G/546G-1	549G
A141009-22-(7)		478G-2	546G/546G-1	549G
A141009-22-(8)		478G-2	546G-1	549G
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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

*Supplemental information in the form of fists, eletches, or drawings may be used provided: (1) size is 8½ × 11; (2) information in items 1 through 4 on this Date Report , is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM NPV-1 (Back - Pg. 2 of _2_)

				Certificate Holde		141009-22-(3 thn
8. Design conditions			or valve pressure (ciass	ANSI 150	¥
. Design conditions	(pretsure)	(temperature)	•			
9. Cold working pressure	275 PSIG @10	0°F				
	450 PSIG	Disk differential test pressure		320 F	PSIG	
0. Hydrostatic test		. Disk onnerenniar test prossure			_	
1. Remarks						
		CERTIFICATION C	OF DESIGN			
Design Specification certi	find he	John W. Dingler			li. Reg. n	o. 0 <u>62-03895</u> 3
Design Report certified by	ments made in t			P.E. State		<u> </u>
Design Report certified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza	ments made in t ivision 1.	CERTIFICATE OF CO his report are correct and that N-2882 BNL INDUSTRIES, INC.		ve conforms to the second s		nstruction of the
Design Report certified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza	ments made in t ivision 1.	CERTIFICATE OF CO his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Holder)	this pump or valv	ve conforms to the second s	the rules for co 11/10/2016	nstruction of the
Design Report cartified by We cartify that the state ASME Code, Section III, D N Cartificate of Authoriza Date 4/8/15	ments made in t ivision 1. tion No Name	CERTIFICATE OF CC his report are correct and that N-2882 BNL (NDUSTRIES, INC. (N Certificate Molder) CERTIFICATE OF IN	this pump or values	ve conforms to the second seco	the rules for co 11/10/2016	nstruction of the
Design Report cartified by We cartify that the state ASME Code, Section III, D N Cartificate of Authoriza Date 4/8/15	ments made in t ivision 1. tion No Name	CERTIFICATE OF CO his report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Holder)	this pump or value Expires	ve conforms to the second seco	the rules for co 11/10/2016	nstruction of the
Design Report certified b We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date 4/8/15	ments made in the initiation formation for the initiation formation formation for the initiation formation for the initiation foret on the initiation for the initiation for the initiat	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Molder! CERTIFICATE OF IP aission issued by the National ONECIS INSURANC	this pump or value Expires	ve conforms to the second of t	the rules for co 11/10/2016	nstruction of the
Design Report cartified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/5/15$	ments made in the initiation No	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holder1 CERTIFICATE OF II aission issued by the National ONECIS INSURANC A hat to the best of my knowledge	this pump or value Expires	ve conforms to the second of t	the rules for co 11/10/2016	nstruction of the
Design Report certified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date 4/8/15	ments made in t ivision 1. tion No Name ing a valid comm LYNN, M/ , and state t	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holder! CERTIFICATE OF IP aission issued by the National ONECIS INSURANC A hat to the best of my knowledge ull Division 1.	this pump or value Expires	ve conforms to the second of t	the rules for co 11/10/2016 MOLLAN el Inspectors ar described in this constructed thi	nstruction of the
Design Report certified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/8/15$ I, the undersigned, holdi of <u>4/8/15</u> in accordance with the AS	ments made in t ivision 1. tion No Name ing a valid comm LYNN, M/ , and state t iME Code, Section	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holder) CERTIFICATE OF IP sission issued by the National ONECIS INSURANC A hat to the best of my knowledge III, Division 1. tor not bis employer makes any	this pump or value Expires Expires	ve conforms to the conforms to the conforms to the conformation of	the rules for co 11/10/2016	nstruction of the
Design Report cartified by We cartify that the state ASME Code, Section III, D N Cartificate of Authoriza Date $4/8/15$ I, the undersigned, holdi of 4/8/15 in accordance with the AS By signing this cartificate in this Data Report. Further	ments made in the initiation No	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Holderi CERTIFICATE OF IP aission issued by the National ONECIS INSURANC A hat to the best of my knowledge i III, Division 1. tor nor his employer makes any e Inspector nor his employer sha	this pump or value Expires Expires	ve conforms to the conforms to the conforms to the conformation of	the rules for co 11/10/2016	nstruction of the
Design Report certified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/5/15$ I, the undersigned, holdi of I, the undersigned, holdi of In accordance with the AS By signing this certificate in this Data Report. Furthe or a loss of any kind arisin	ments made in the ivision 1. tion No Name ing a valid comm LYNN, Mu , and state the iME Code, Section neither the inspect armore, neither the og from or connection of the	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Molder) CERTIFICATE OF II aission issued by the National ONECIS INSURANC A hat to the best of my knowledge III, Division 1. tor nor his employer makes any e Inspector nor his employer sha ted with this inspection.	this pump or value Expires	ve conforms to the second or implied, con nanner for any period.	the rules for co 11/10/2016 1.//10/2016 1	nstruction of the
Design Report certified by We certify that the state ASME Code, Section III, D N Certificate of Authoriza Date $4/5/15$ I, the undersigned, hold of <i>4/8/15</i> in accordance with the AS	ments made in the ivision 1. tion No Name ing a valid comm LYNN, M/ , and state to iME Code, Section neither the inspect permore, neither the ing from or connect Signed	CERTIFICATE OF CC his report are correct and that N-2882 BNL INDUSTRIES, INC. IN Certificate Molder) CERTIFICATE OF II aission issued by the National ONECIS INSURANC A hat to the best of my knowledge III, Division 1. tor nor his employer makes any e Inspector nor his employer sha ted with this inspection.	this pump or value Expires Expires	ve conforms to the second or implied, con nanner for any period.	the rules for co 11/10/2016 1.//10/2016 1	nstruction of the

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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 ____

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1. Manufactured and certified by	BNL	INDUSTR	ES INC., 30 INDUSTR			DN, CT 06066
2. Manufactured for	FIRST ENERGY	SERVICE	(name and address COMPANY, 76 SOUT			. OH 44308
3. Location of installation			treme and address of P AR POWER PLANT,	Urchaeer)		
4. Model No., Series No., or Type	VALVE	Drawing .	(name and ad GBV-82-60-0112	dress) Rev	с	CRN
5. ASME Code, Section III, Division 1	1971 (edition)		W72		3 (cleas)	(Code Case no.)
6. Pump or valveVALVE	Nominal inlet size	6				
7. Material (a) valve Body <u>SA-105</u> (b) pump Cesing	Bonnet <u>SA-105</u> Cover	- Disk - Bolting	<u>SA-479 TY.3</u> 16 Bolt 9	ing <u>SA-453GF</u>	<u>3.6</u> 60	
(s) Certificate Holder's Serial No.	(b) National Board No.	Bo	(c) dy/Casing Serial No.	(d) Bonnet/ Serl No	Cover al	(c) Disk Serial No,
A141009-23-(5)			479G-2	547G	∟1	27H
A141009-23-(6)		·	479G-2	547G/54		2711-1
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* Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8½ × 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)

FORM NPV-1 (Back - Pg. 2 of _2_)

				Certificate Holde	er's Serial No. 🗡	41009-23-(5 th
					ANSI 150#	_
Design conditions	(pressure)	(temperature)	or valve pressure	ciass		
	275 PSIG @100*F					
Cold working pressure		1				
. Hydrostatic test	450 PSIG . Dis	k differential test pressure		320 F	-SIG	
. Remarks						
		CERTIFICATION	OF DESIGN			
		1.1. 14/ Di-1		05 0-1-	IL Reg. n	062-03895
esign Specification certi		John W. Dingler			Reg. no	
Design Report certified by	۰			P.E. State .	Nog. N	
Certificate of Authorizat		N-2882 BNL INDUSTRIES, INC.	Expires	Strin B	11/10/2016	5)
ate 418/15	Name	In Cardinate Indiani			the second se	
		CERTIFICATE OF I on issued by the National ONECIS INSURAN	Board of Boller a	nd Pressure Vess	sel inspectors an	d employed by
, the undersigned, holdi	ing a valid commissio	CERTIFICATE OF I on issued by the National ONECIS INSURAN	Board of Boiler a			<u> </u>
, the undersigned, holdi	ing a valid commissio	CERTIFICATE OF I on issued by the National ONECIS INSURAN	Board of Boller a CE COMPANY have inspected to	he pump, or valve	, described in this	a Data Report o
the undersigned, holdi	LYNN, MA	CERTIFICATE OF I on issued by the National ONECIS INSURAN	Board of Boller a CE COMPANY have inspected to and belief, the Ce	he pump, or valve rtificate Holder ha	, described in this s constructed this	a Data Report o pump, or valve
the undersigned, holdi 4/8/15 n accordance with the AS	LYNN, MA , and state that to GME Code, Section III, C	CERTIFICATE OF I on issued by the National ONECIS INSURAN o the best of my knowledge Division 1.	Board of Boller a CE COMPANY have inspected to and belief, the Ce warranty, express	he pump, or valve Intificate Holder ha Ned or implied, con	, described in this s constructed this cerning the comp	a Data Report o pump, or valve conent describe
, the undersigned, holdi 	ing a valid commission LYNN, MA , and state that to SME Code, Section III, Construction neither the Inspector of ermore, neither the ins	CERTIFICATE OF II on issued by the National ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS OF MY KNOWLED OVISION 1. Nor his employer makes any pector nor his employer sh	Board of Boller a CE COMPANY have inspected to and belief, the Ce warranty, express	he pump, or valve Intificate Holder ha Ned or implied, con	, described in this s constructed this cerning the comp	a Data Report o pump, or valve conent describe
, the undersigned, holdi of <u>4/8/15</u> in accordance with the AS	ing a valid commission LYNN, MA , and state that to SME Code, Section III, Construction neither the Inspector of ermore, neither the ins	CERTIFICATE OF II on issued by the National ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURANCE ONECIS INSURANCE INSURANCE ONECIS INSURANCE ONECIS INSURANCE INSUR	Board of Boller a CE COMPANY have inspected to a and belief, the Ce warranty, express all be liable in any	he pump, or valve Intificate Holder ha led or implied, con manner for any po	, described in this s constructed this sceming the comp ersonal injury or p	a Data Report o pump, or valve conent describe
, the undersigned, holdi 	Ing a valid commission LYNN, MA , and state that to SME Code, Section III, Code, Sec	CERTIFICATE OF II on issued by the National ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURAN ONECIS INSURANCE ONECIS INSURANCE INSURANCE ONECIS INSURANCE ONECIS INSURANCE INSUR	Board of Boller a CE COMPANY have inspected to and belief, the Ce warranty, express	he pump, or valve Intificate Holder ha led or implied, con manner for any po	, described in this s constructed this sceming the comp ersonal injury or p	a Data Report o pump, or valve conent describe

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	/BNI			ON, CT 06066
		iname and a	ddress of N Certificate Holder)	
2. Manufactured for	PIRST ENERG		SOUTH MAIN STREET, AKRO	N, OH 44308
	0041/001/44	Iname and addr	ere of Purchaser)	
1. Location of installation	BEAVER VALL		ANT, 1 ROUTE 168, SHIPPING	PORT, PA 15077
		iname	and address)	
 Model No., Series No., or Type 	VALVE	DrawingGBV-B2-60-01	12 RevC	CRN
		•		
. ASME Code, Section III, Division	on 1 1971		3	
	(adition)	[Addenda (if applicab	ie) (date)] (date)	(Code Case rio.)
Pump or valveVALVE		6* Outle	et size6"	
Material				
(a) valve Body SA-105	Bonnet SA-105	Disk	Bolting SA:453GR.660	
(b) pump Casing	Cover	Botting		
(a)	<i>.</i>			
Certificate	(b) National	(c) Body/Casing	(d)	(a)
Holders	Board	Serial	Bonnet/Cover Serial	Disk
Serial No.	No.	No.	No.	Serial No.
A141009-23-(7)				
A141009-23-(8)		479G-2	547G	27H
		479G-2	547G/122H	27H
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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

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

(07/10)

FORM NPV-1 (Back - Pg. 2 of _2_)

			Ce	rtificate Hold	er's Seria	I No. 414	1009-23-(7 thru
8. Design conditions	(pressure)	(Lemperetura)	or valve pressure clas			ISI 150#	
9. Cold working pressure	275 8516 6100	PF					
10. Hydrostatic test	450 PSIG	Disk differential test pressure		320	PSIG		
11. Remarks							
		CERTIFICATION C	JESIGN	<u>i</u>			
		John W. Dingler		P.E. State	<u> </u>	Reg. DO	062-038953
Design Specification certified by	/	CERTIFICATE OF CO	OMPLIANCE	P.E. State .	 	. Reg. no.	
Design Report certified by We certify that the states ASME Code, Section III, Di	y ments made in th ivision 1.		OMPLIANCE	P.E. State	the rules 11/10/2	for cons	
Design Report certified by We certify that the state ASME Code, Section III, Di N Certificate of Authorized	y ments made in th ivision 1.	CERTIFICATE OF CO is report are correct and that N-2882	DMPLIANCE this pump or valve of Expires	P.E. State	the rules	for cons	
Design Report certified by We certify that the state ASME Code, Section III, Di N Certificate of Authorized Date <u>4/14/15</u>	ments made in th ivision 1. tion No Name	CERTIFICATE OF Co is report are correct and that N-2882 BNL INDUSTRIES, INC.	OMPLIANCE this pump or valve of Expires Signed ISPECTION Board of Boiler and Po	P.E. State	the rules 11/10/ Apportant rec	Reg. no.	truction of the
Design Report certified by We certify that the state ASME Code, Section III, Di N Certificate of Authorized Date <u>4/14/15</u> I, the undersigned, holdi of <u>4/14/15</u> in accordance with the AS By signing this certificate i	ments made in the ivision 1. tion No Name ing a valid commisting a valid commistence of the code, section neither the inspect termore, neither	CERTIFICATE OF Co is report are correct and that N-2882 BNL INDUSTRIES, INC. (N Certificate Holder) CERTIFICATE OF IN ission issued by the National ONECIS INSURANC ust to the best of my knowledge III, Division 1. or nor his employer makes any inspector nor his employer sha	DMPLIANCE this pump or valve of Expires	P.E. State	the rules 11/10/ shorized rec iel Inspec , describe s constru cerning to	Reg. no. for cons 2016 Ctors and ed in this cted this p	employed by Data Report on pump, or valve, nent described

(07/11)

FC	ORM NIS-2 OV	VNER'S REPC As Required by the					IENT ACT	IVITY
NOP-CC-5703-02	2 Rev. 02	•					Number 3869	
1. Owner <u>Fir</u>	stEnergy Nuclear	Operating Co.	_	Dat	te <u>9-24-2015</u>	-		
76 South I	Main Street – Akr (ADDRESS)	on, OH 44308	-		eet1 t No.	c		
2. Plant	Beaver Valley P	ower Station (BV	<u>(PS)</u>					······································
PO Box 4,	Shippingport, PA (ADDRESS)	15077					625314 on P.O. No., Job No.,	elc.
3. Work Perfo	ormed By <u>BVPS</u>	Construction Serv	vices	Тур	e Code Symbol	Stamp	N//	A
PO Box 4,	Shippingport, PA (ADDRESS)	15077			horization No			······
4 Identificatio	a of Custom C				biration Date _		N/A	
	on of System <u>Se</u>	ervice Water Syst	tem, BV-2-3	<u>80-Sy</u>	stem (Class 3)			
(b) Applicab	le Edition of Section X	ASME Section III						
	le Section XI Code Ca							
							.	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Spool	Stone and Webster	N-1141-5268	N/A		Spool SWS-192-10	1986	Removed	Yes
Spool	Stone and Webster	N/A	N/A		Pipe Line 2-SWS-004-192- 3	1986	Corrected	Yes
Flange, Weld Neck, 4", Sch 40	Western Forge and Flange	N/A	N/A		WFF Code: IOH-2	2014	Installed	No
Pipe, 4", Sch 40	US Steel	N/A	N/A		Heat # A62935	2003	Installed	No
Elbow, 4", 45 deg, Sch 40	Weld Bend	N/A	N/A		Heat # 487275	2014	Installed	No
Stud, 5/8"	Nova Machine Products	N/A	N/A		Heat # 13W3	2015	Installed	No

FO	RM NIS-2 OW	NER'S REPO					VITY
NOP-CC-5703-02	Rev. 02				Report N	lumber <u>3869</u>	
Nut, 5/8"	Nova Machine Products	N/A	N/A	Heat # 15D0	2015	Installed	No
7. Description section of spoo	of Work <u>Pipe line</u> ol SWS-192-10 an	2-SWS-004-192 d replacing with t	2-3 had a small the components	pin hole leak and identified above	<u>d was co</u>	orrected by re	emoving a
8. Tests Cond	Other [umatic* 🗌 No	ominal Operating psi Tes	-	ure 🛛 E	
Applicable sec	5 Code Data Rep tion of Code Data orts #521 and #35	Report attached;	5-SWS includes entire N5 Code	<u>Data Report on</u>	<u>2-10 in /</u> i Film N	Attachment 2 umber S1336	as Item No 35. 5-0647.
Code, Section Type Code Syr Certificate of A Signed <u>Thom</u>	e statements made XI. nbol Stamp <u>N/A</u> uthorization No. <u>as M Calko, Engin</u> wner or Owner's D	e in the report are N/A		at this conforms	×	N/A	
and employed described in thi and state that t	ned, holding a valid by <u>HSB Glob</u> s Owner's Report o the best of my k ribed in this Owne	d commission iss al Standards during the period nowledge and be	of <u>Hartford</u> of <u>Hartford</u> d <u>J</u>	, CT ゲーノダ has performed e	oiler and have to xamina	inspected the $9 - 24 - 3$ tions and tak	e components / <u>/</u> , en corrective
concerning the inspector nor hi kind arising from	certificate neither examinations and is employer shall k m or connected wi <u>J. J. J.</u> Inspector's Signat	corrective meas be liable in any m th this inspection //	ures described anner for any p	in this Owner's F ersonal injury or	Report. propert	Furthermore y damage or	, neither the a loss of any

Dequestion of control contro control control control control control control control	As		STALLATION OR S	orts, and appl	ATENANCES	2-SR-30-05-545
Dampene Light Son, Die Darie of compare of compare of comparison of performances Description of the second second of the second second of the second seco		wedning of the Lical	sions of the ASME	Coop Rules, Socio	n W, Division 1	Sheet 1 of 37
Nessied to	instated bySchr	eider Power Corp.,	125 Seventh Street	Pittsburgh, PA	15222	
N Centificate Holder Paving Overall responsibility. Stoke 5 Abbster Engineering Corporation Lossing of Headingon, Beaver, Welley, Poers Station, Unit 42, Shippingport, PA. 15077 Sertem Kontification, Beaver, Welley, Poers Station, Unit 42, Shippingport, PA. 15077 Link Services of Neurificate Notions' Parit Data Reports and PC Carlificate Notions' Parit Data Reports and appureances installed in the Field by Welding Link services (I I English Notices) Experiments (I Carnedian (a) Herioff, 27, 87, 97, 61, 12, 97, 64, 77, 61, 12, 97, 64, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 77, 61, 12, 97, 65, 76, 11, 12, 97, 65, 76, 11, 12, 97, 65, 76, 11, 12, 97, 65, 76, 11, 12, 97, 65, 76, 11, 12, 97, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	Installed for Dug	esne Light Co One	DATONG CENTRE, 30	11 Grant Street.,	Pittsburgh, Pi	A 15279
Location of Instantion, <u>Deaver. Valley Rover: Station Unit 22, Shippingport, PA 15077</u> Verstans Kantification (<u>2-58-30-55-555</u> <u>MA</u> <u>Att. 10</u> <u>MAT 007900, Na7</u> Verstans Kantification (<u>2-58-30-55-555</u> <u>MA</u> <u>Att. 10</u> <u>MAT 007900, Na7</u> Verst Installed in the field by Weiding List scath item and staten copeies of M Certificate Molder: <u>Data Reports</u> <u>Rep. Na.</u> <u>Bd</u> <u>No.</u> <u>M7 Verst Installed</u> in the field by Weiding List scath item and staten <u>Appurenences</u> <u>Certificate Molder</u> (<u>D Senial No.</u> <u>Rep. Na.</u> <u>Bd</u> <u>No.</u> <u>M7 Verst Built <u>See Attachment</u> (<u>11) "Parts, Components & Appurtenonces" </u></u>	N Certificate Holder	having overall responsi	bility Stone & Webst	er Engineering Co	poration	
See Attachment (2) "Field Notified Built See Statistics of the Second Seco	Location of Installat	ion <u>Beaver Valley P</u>				
Sobers of N Cartificate Molder' Date Reports Ef 78 7 0 1 1-9 ((d) Canadian (e) Noticity 78 7 0 1 1-9 (e)		(Metr. Senal No.) (1	CANI (Ormany No.)			
Bil Components Cell Canadian (d) Canadian (d) National See Attachmant (1) "Parts, Components & Appurtenances"	copies of N Certifice	AN Holders' Date Reports	as installed in the and NPT Cartificate N	Field by Weldin		
See Attachment (1) "Parts, Components & Appurtenances".	(s) Components, er	(b) Name of		(d) Canadian	(e) National	
#**NO_FURTHER_ENTRIES*** "Piping System Installation (a) Piping (b) Name of Gubessembly See Attachment (2) "Shop Fabricated Large Bore Piping Subassemblies Installed" See Attachment (3) "Field Modified Large Bore Subassemblies Installed" See Attachment (3) "Field Modified Small Bore Subassemblies Installed" See Attachment (4) "Shop Fabricated Seall Bore Subassemblies Installed" See Attachment (5) "Field Modified Small Bore Subassemblies Installed" N/A See Attachment (5) "Field Modified Small Bore Subassemblies Installed" N/A See Attachment (5) "Field Modified Small Bore Subassemblies Installed" N/A See Attachment (b) Name of Component Support Installation (d) Design Rept. Load Capac. (a) Consponent Support Installed" Support No. Cantificate Holder (c) Serial No. Component Supportis are non-code, due to code effective datc. See Attachment (6) "Additional Material to Phylopert Recluding Wolding Material Ial Newn of Bib Material Support See Attachment (1), "Additional Material" Note: The following shortened company Manufacturer <tr< td=""><td>-</td><td></td><td></td><td></td><td>8d. No.</td><td>(1) Year Built</td></tr<>	-				8d. No.	(1) Year Built
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(a) Piping (b) Name of Cortificate Holder (c) Serial No. Reg. No. Bd. No. (f) Year Built See Attachment (2) "Shop Fabricated Large Bore Subassemblies Installed" See Attachment (3) "Field Modified Seall Bore Subassemblies Installed" See Attachment (5) "Field Modified Seall Bore Subassemblies Installed" M/A M/A See Attachment (5) "Field Modified Seall Bore Subassemblies Installed" See Attachment (6) "Field Modified Seall Bore Subassemblies Installed" M/A M/A See Attachment (6) "Field Modified Seall Bore Subassemblies Installed" Bubassemblies Installed" M/A M/A Component (b) Name of Load Capet. (a) Canadian (f) National Support No. Centificate Holder (c) Serial No. Data Sheet Reg. No. Bd. No. (g) Year Built Component (b) Marks of Load Capet. (a) Canadian (f) National Material Material Support No. Excluding Material (a) Name of (b) Marterial No. Bd. No. (g) Year Built Component Supports are non-Code, due to code effective date, SEE "Additional Material (a) Nume of (b) Marterial Note: The following shortened company names are used in this report: Static Stone & Mebster Engineering Corp. See Attachment (6)"Component Support Staterial" (b) Bestriation (c) Dimension Note: The following shortened company names are used in this report: Static Stone & Mebster Engineering Corp. See Attachment (6)."Component Support Staterineering Corp. Statischment (10)." Bestription for installations" *			• • • • • • • • • • • • • • • • • • •		<u> </u>	
(a) Piping (b) Name of Cortificate Holder (c) Serial No. Reg. No. Bd. No. (f) Year Built See Attachment (2) "Shop Fabricated Large Bore Subassemblies Installed" See Attachment (3) "Field Modified Seall Bore Subassemblies Installed" See Attachment (5) "Field Modified Seall Bore Subassemblies Installed" M/A M/A See Attachment (5) "Field Modified Seall Bore Subassemblies Installed" See Attachment (6) "Field Modified Seall Bore Subassemblies Installed" M/A M/A See Attachment (6) "Field Modified Seall Bore Subassemblies Installed" Bubassemblies Installed" M/A M/A Component (b) Name of Load Capet. (a) Canadian (f) National Support No. Centificate Holder (c) Serial No. Data Sheet Reg. No. Bd. No. (g) Year Built Component (b) Marks of Load Capet. (a) Canadian (f) National Material Material Support No. Excluding Material (a) Name of (b) Marterial No. Bd. No. (g) Year Built Component Supports are non-Code, due to code effective date, SEE "Additional Material (a) Nume of (b) Marterial Note: The following shortened company names are used in this report: Static Stone & Mebster Engineering Corp. See Attachment (6)"Component Support Staterial" (b) Bestriation (c) Dimension Note: The following shortened company names are used in this report: Static Stone & Mebster Engineering Corp. See Attachment (6)."Component Support Staterineering Corp. Statischment (10)." Bestription for installations" *			-			
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See Attachment (2) "Shop Fabricated Large Bore Floing Subassemblies Installed"			(c) Seria: No			A Mana Ruib
See Attachment (3) "Field Modified Large Bore Subassemblies Installed" N/A See Attachment (4) "Shop Fabricated Seall Bore Subassemblies Installed" N/A Sae Attachment (5) "Field Modified Seall Bore Subassemblies Installed" N/A See Attachment (5) "Field Modified Seall Bore Subassemblies Installed" N/A See Attachment (5) "Field Modified Seall Bore Subassemblies Installed" N/A Component Support Installation (d) Design Rept. Bl Component (b) Name of Load Capac. (e) Canadian (f) National Support No. Cartificate Holder (c) Serial No. Data Sheet Rep. No. Bd. No. (g) Year Built Component Supports are non-code, due to code effective date. SEE "Additional Matarial Laing Welding Material" for "Component Support Integral Attachment Only." Matarial Manufacturer Specification (c) Dimensions Names are used in this report: SUEC: Schneider Power Corp. See Attachment (0)? "Additional Material" Note: The following shortened company mames are used in this report: SUEC: Schneider Power Corp. See Attachment (6)? "Component Support SUEC: Schneider Power Corp. Integral Attachment (0)? "Additional Material" Note: The following Stans Boiler Insurance Company See Attachment (0) "Procedures & Specifications" Srepared by See Attachment (1) "Procedures & Specifications" Sreptifications" Sreptif	Sen Attachment	(2) "Shon Eshelest	od Lamon Rome Diai	ne Subsenerhiden	Tradict Trade	
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SERVICE NATER SYSTEM (SWS)

CORRECTED COPY 2-SR-30-05-SWS

Sheet 2 of 37

FORM N-5 (Back)
CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION Design information on file at <u>Stone</u> & <u>Kebster Engineering</u> Corp., Boston, NA. Design Report on file at <u>A</u> stress report is not required for Class 2 or 3 piping systems Design specifications centified by (1) J. R. <u>Haslam</u>
Design Report centiled by (1) A stress report is not req'd PE State N/A Reg. No. for Class 2 or 3 piping systems. # SEE ATTACHMENT(11) "System (1, Signature not required. List name only. Design Conditions of Piping # Osi # Temperature & Hydrostatic/ Pressure Design Conditions of Piping # Osi # Temperature & Hydrostatic/ Pressure Design Conditions of Piping # Osi # Temperature & Hydrostatic/ Pressure Design Conditions of Piping # Osi # Temperature & Hydrostatic/ Pressure Design Conditions of Piping # Osi # Temperature # Stephene # Stephen
CERTIFICATE OF INSTALLATION COMPLIANCE
We certify that the statements made in this report are correct and that this installation conforms to the rules of con- struction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, 1971 & Addenda Date: Winter 172 & Code Case No Class 3 end was performed in
accordance with the documents listed in 7(a), above. Our ASME Certificate of Authorization No. <u>N-1824-1</u> to use the <u>NA</u> Symbol expires <u>8-12-89</u> Refer to ATTACHMENT (2) for material responsibilities (N. NAL and ATTACHMENT (11) for pressure test responsibilities. Date <u>Signed Schneider Poper Lorp</u> by <u>Grane Mallage</u> by <u>Mallage</u> by <u>Mallage</u> by <u>Grane Mallage</u> by <u>Mallage</u> by <u>Mallag</u>
1. the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>HSBI & I Co.</u> of <u>Hartford. CT.</u> have inspected the installation of the items described in this Data Report on <u>12/12</u> 19.2%, and state that, to the best of my knowledge and belief, the Certificate of Authorization Holdar has performed this installation in accordance with the ASME Code for Nuclear Power Plant Components. By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the installation described in this Data Report. Furthermore, neither the Inspector nor his employer shall be lighte in any manner.
for any personal injury or property damage or a lose of any kind arising from or connected with the sepection. Data 12/10 1986 Signed Signed for the Commissions 194-3000-N (Nat'l Board, State, Province and No.)
CERTIFICATE OF COMPLIANCE
Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement. Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities. We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section 111, Division 1.
Certificate of Authorization expires 6-18-88 Certificate of Authorization No. <u>N-1513-2</u> Date 11.5197 Signed Stone & Kebster Engr. by Discourse (N-Certificate Horder)
CERTIFICATE OF INSPECTION I the undersigned holding a velid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by _HSBI & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on <u>F-13 19 87</u> and state that to the best of my knowledge and belief, the Certificate of Authorization Holder has constructed thus installation in accordance with the ASME Code for Nuclear Power Plant Components. By signing this certificate, neither the Inspector nor his employer make any warranty, express or implied, con-
cerning the piping described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property demage or a loss of any kind arising from or connected with this inspection Date 1-13 19 8.7. Signed
Signed

N-5 DATA REPORT ATTACHMENT 2

2-SR-30-05-SWS

Sheet 7_ Of 37_

INSTALLED BY: <u>Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA</u> 15222 INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15279 N CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: <u>Stone & Webster Engineering Corp.</u> LOCATION OF INSTALLATION: <u>Beaver Valley Power Station, Unit-2, Shippingport, PA</u> 15077 SYSTEM IDENTIFICATION Service Water System(SWS)2-SR-30-05-SWS YEAR INSTALLED_1986

Continued from Sheet ____1__

SHOP FABRICATED LARGE BORE PIPING SUBASSEMBLIES INSTALLED (A) **(B)** (C) (D) : (E) (F) . (G) (H) Name of tein Piping Certificate Serial Canadian National Year 10. Subassembly Holder Isometric No. Rag. No. Bd. No. Built No. T SW5-72-2 Fower Piping Co. N-1141-5227 N/A N/A 1982 101923 2 SW5-72-4 Power Piping Co. N-1141-6529 N/A N/A 1982 101923 3 SW5-545-1 Power Piping Co. N-1141-5229 N/A N/A 1980 101923 4 SWS-73-1 Power Piping Co. N-1141-5230 N/A N/A 1982 101924 5 SWS-73-2 Power Piping Co. N-1141-5231 N/A N/A 1980 101924 6 SWS-73-3 Power Piping Co. N-1141-5232 N/A N/A 1980 101924 7 SW\$-73-4 Power Piping Co. N-1141-6530 **%/A** H/A 1982 101924 3 SWS-74-1 Power Piping Co. N-1141-5234 N/A N/A 1981 101925 9 SWS-74-3 Power Piping Co. N-1141-5236 N/A N/A 1980 101925 SWS-74-4 Power Piping Co. N-1141-6531 N/A N/A 1982 101925 S#S-78-1 Power Piping Co. N-1141-5092 N/A N/A 1981 101919 SWS-77-1 > Power Piping Co. N-1141-5096 N/A N/A 1980 101919 3 SWS-78-3 Power Piping Co. N-1141-5094 N/A N/A 1981 101919 SWS-88-18 Power Piping Co. N-1141-5095 N/A N/A 1980 101919 * SWS-77-3A ς. Power Piping Co. N-1141-5098 N/A The letter suffix indicates the welding of an attachment to the spool N/A 1980 101919 is made to the spool. No modification ntinued on Sheet 8 Date Id ho JTD. Signed 11. Date/1/18/8 KUL Commissions 2000 Signature Stone Webster Eng. Board, State and No.) Date Juster Corp. Signed N'Gertificate High Date H Wels Commissions 2050 NI Signatur (Nat'i Board, Stale and No.)

2-SR-30-05-SWS			
Sheet	8	Of_	37

1. Jas ZN

(Nat'l Board, State and No.)

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Commissions

N-5 DATA REPORT **ATTACHMENT 2**

	INSTALLED BY:
2.	INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET,
	PITTSBURGH, PENNSYLVANIA 15279
_	N CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY:Stone & Webster Engineering Corp.
З.	N CERTIFICATE HOLDEN HAVING OFENALL TILD ONOUTET TO
	LOCATION OF INSTALLATION: Beaver Valley Power Station, Unit-2, Shippingport, PA 15077
4	LOCATION OF INSTALLATION.

5. SYSTEM IDENTIFICATION Service Water System(SWS)2-SR-30-05-SWS YEAR INSTALLED 1986

Continued from Sheet _____

Date 1

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SHOP FABRICATED LARGE BORE PIPING SUBASSEMBLIES INSTALLED

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
<u>!tem</u> No. 16	Piping Subassembly * P-119A	Name of Certificate Holder Power Piping Co.	Serial No. N-1141-3420	Canadian Reg. No. N/A	National Bd. No. N/A	Year Built 1980	lsometric No. 101919
17	SWS-77-5	Power Piping Co.	N-1141-5100	N/A	N/A	1980	101920
18	sws-77-6	Fower Piping Co.	N-1141-5101	N/A	N/A	1981	101920
19	SWS-89-18	Power Piping Co.	N-1141-5102	N/A	N/A	1980	101920
20	SWS-452-12	Power Piping Co.	N-1141-5247	N/A	N/A	1980	101928
21	SW5-452-13	Power Piping Co.	N-1141-5248	N/A	N/A	1980	101928
22	SWS-452-15	Power Piping Co.	N-1141-5250	N/A	N/A	1980	101928
23	SWS-452-16	Power Piping Co.	N-1141-5251	N/A	N/A	1980	101928
24	sws-452-17	Power Piping Co.	N-1141-5252	N/A	N/A	1980	101928
25	SWS-564-1	Power Piping Co.	N-1141-5254	N/A	N/A	1980	101928
26	P-5059	Power Piping Co.	N-1141-3417	N/A	N/A	1978	101928
27	P-459	Power Piping Co.	N-1141-3278	N/A	N/A	1979	101929
28	SW5-193-7	Power Piping Co.	N~1141-5255	N/A	N/A	1980	101929
29	SWS-193-8	Power Piping Co.	N-1141-5256	N/A	N/A	1980	101929
30 * Th	SWS-193-9 e letter suffi	Power Piping Co. x indicates the wel	N-1141-5257 ding of a temp		N/A hment to th	1980 e spool.	101929 (1.E.
	o cap) no modi nued on Sheet <u>9</u>	Data Disiste	Schneider Powe NA Certificate Huty	Commi	AN	3000	and No.?
ł		Date	Stone Webster E	mg. Jorb.		Year	/

2-SR-30-05-SWS

N-5 DATA REPORT ATTACHMENT 2

Sheet 9_0f_37_

. INSTALLED BY: <u>Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA</u> 15222 (Nume and Address of Installer of Parts, Components, and Appurtemances) . INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 303 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15279

. N CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: <u>Stone-& Webster Engineering Corp.</u> . LOCATION OF INSTALLATION: <u>Beaver Valley Power Station, Unit-2, Shippingport, PA</u> 15077

. SYSTEM IDENTIFICATION Service Water System(SWS)2-SR-30-05-SWS YEAR INSTALLED 1986

Continued from Sheet ____8

SHOP FABRICATED LARGE BORE PIPING SUBASSEMBLIES INSTALLED

(A)	(B)	(C)	(D)	(E)	(F) .	(G)	(H)
ltem No. 31	Piping Subassembly SWS-563-1	Name of Certificate Holder Power Piping Co.	Serial No. N-1141-5258	Canadian Reg. No. N/A	National Bd. Nc. N/A	Year Built	lsometric No.
32	SWS-563-2	Power Piping Co.	N-1141-5259	N/A		1980	101929
33	P-460	Power Piping Co.	N-1141-3279		N/A	1980	101929
34	SWS-192-9	Power Piping Co.		N/A	N/A	1979	101931
-		tonet tripting to.	N-1141-5267	N/A	N/A	1980	101931
35	SWS-192-10	Power Piping Co.	N-1141-5268	N/A	N/A	1980	101931
36	SWS-192-11	Power Piping Co.	N-1141-5269	N/A	N/A	1980	101931
37	SWS-192-12	Power Piping Co.	N-1141-5270	N/A	N/A	1980	101931
38	SWS-192-13	Power Piping Co.	N-1141-5271	N/A	N/A	1980	101931
39	SWS-192-15	Power Piping Co.	N-1141-2737	N/A	N/A	1982	101931
40	SW5-192-5	Power Piping Co.	N-1141-5277	N/A	N/A	1980	101932
41	SWS-453-11	Power Piping Co.	N-1141-5280	N/A	N/A	1980	101933
42	SWS-453-12	Power Piping Co.	N-1141-5281	N/A	N/A	1980	101933
43	SWS-453-13	Power Piping Co.	N-1141-5282	N/A	N/A	1980	101933
44	SWS-453-15	Power Piping Co.	N-1141-5284	N/A	N/A	1980	101933
45	SWS-453-16	Power Piping Co	N-1141-5285	N/A	N/A	1980	101933
46	SWS-453-17	Power Piping Co.	N-1141-5286	N/A	N/N/	1980	1019330
Sontinu	red on Sheet1	Date/d/10/86 _S	chneider Power	Garp. Sig	non Bacon	<u>UKelle</u>	Le 12+logh
		Date 3/18/86	NA Certificato Montes	2	(emp)	1000-0	
			ANI Signature DnedWebster Eng		- ANath	Board, State ar	nd No.)
•		Julon	NCertificate Honosy	Sign	ned Chica	Lound -	[
		Date <u>112/ D /</u>	An prekh	Commissie		Board, State an	Id No.)

2-SR-30-05-SWS Sheet 10 Of 37

6

pard, State and No.)

" Board, State and No.)

DA3000

N-5 DATA REPORT ATTACHMENT 2

. INSTALLED BY:	Schneider Power	r Corp., 12	5 Seventh	Street	Pitteburgh,	PA	15222
. INSTALLED FOR	 DUQUESNE LIGH PITTSBURGH, PEI 			ORD CEN	ITRE, 301 GHA	ant st	REET,
. N CERTIFICATE	HOLDER HAVING C	VERALL RE	SPONSIBIL	.ITY:	Stone-& Wabs	ter Engi	incering Corp.
					nit-2, Shipping	nort PA	4 16077
. LOCATION OF IN			·····				
. SYSTEM IDENTIF	ICATION Service	Water Syste	m(SWS)2-S	R-30-05-	SWS YEAR	INSTA	LLED_1986
		(MIF.	Serial No.)				

Continued from Sheet _____

SHOP FABRICATED LARGE BORE PIPING SUBASSEMBLIES INSTALLED

(A)	(8)	(C) Neme of	(D)	(E)	(F)	(G)	(H)
ltem No.	Piping Subassembly	Certificate Holder	Serial No.	Canadian Reg. No.	National Bd. No.	Yeor Built	Isometric No.
17	P-5060	Power Piping Co.	-	N/A	N/A	1978	101933
1 6	- SWS-452-5A	Power Piping Co.	*# 12-13-EG 	N/A		19 8}	
19 *	SWS-453-6A	Power Piping Co.	N-1141-4695	N/A	N/A	1980	111111
i0	SWS-453-2	Power Piping Co.	N-1141-4300	N/A	N/A	1979	109947
i1	SWS-452-2	Power Piping Co.	N-1141-4304	N/A	N/A	1979	109948
;2 *	SWS-452-1A	Power Piping Co.	N-1141-4303	N/A	N/A	1979	109948
:3	SWS-452-7	Power Piping Co.	N-1141-4972	N/A	N/A	1981	175903
;4	sws-453-7	Power Piping Co.	N-1141-4976	N/A	N/A	1981	175904
i5	SWS-453-8	Power Piping Co.	N-1141-4977	N/A ·	N/A	1980	175904
:6	sws-75-1	Power Piping Co.	N-1141-6653	N/A	N/A	1982	101926
i7	SWS-75-3	Power Piping Co.	N-1141-5240	N/A	N/A	1980	101926
:8	S₩S-:75-4	Power Piping Co.	N-1141-6532	N/A	N/A	1983	101926
;9 **	P-121A	Power Piping Co.	N-1141-3422 ***NO FURTHER EN	N/A TRIES***	N/A	1980	101920

NO FURTHER ENTRIES

: The letter suffix indicates the welding of an attachment to the spool. No modification was made to the spool. -----. 1 /1 0

γ ydro cap). No modification was made to the spool.	
	27-16-1
nydro cap). No modification was made to the spool. Intinued on Sheet <u>N/A</u> Date <u>Alas a Schneider Power Corp.</u> Signed Some Charles	<i>[</i>
intinued on Sheet N/A Date 1/10/96 Schneider-Poper Corp. Signer Darthank	w.

w Luter

hature

ANI Signature StoneeWebster Eng. Corp. Signed Q

Commissions

Commissions .

estilicate

Date 3/18/86

Date 11318

Date

NOP-CC-5703-	02 Rev. 02			of the ASME Code S		t Number <u>3871</u>	
1. Owner <u>F</u>	irstEnergy Nuclea	r Operating Co.		Date <u>10-15-2018</u>			
76 South	Main Street – Ak (ADDRESS)	ron, OH 44308	-	Sheet		of <u>3</u> #2	
2. Plant	Beaver Valley F	Power Station (B)	/PS)			<u> </u>	
<u>PO Box 4</u>	, Shippingport, PA (ADDRESS)	15077		Orc	der # 200 ent Organizat	0585209 ion P.O. No., Job No.,	etc.
3. Work Per	formed By <u>BVPS</u>	Construction Ser	<u>vices</u>	Type Code Symb	ol Stamp	oN/	A
PO Box 4	, Shippingport, PA			Authorization No.		<u>N/A</u>	
	(ADDRESS)			Expiration Date		N/A	
 Identificati 	ion of System <u>F</u>	uel Pool Cooling,	BV-2-20-Sy	stem (Class 3)			
(b) Applical		I Utilized for Repair/F		ition, <u>1971</u> Addenda tivity <u>2001 Edition to 2</u>			
6. Identification	on of Components	i					
· · · · · · · · · · · · · · · · · · ·							
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)
			Board			Removed, or Installed	Code Stampe
Component	Manufacturer Stone and	Serial No.	Board No.	Identification Pipe Line 2-FNC-002-	Built	Removed, or Installed	Code Stamper (Yes or No)
Component Pipe Line Flange Flange,	Manufacturer Stone and Webster Stone and	Serial No. N/A	Board No. N/A	Identification Pipe Line 2-FNC-002- 128-3 Pipe Line 2-FNC-002-	Built 1986	Removed, or Installed Corrected	Code Stamper (Yes or No) Yes
Component Pipe Line Flange Flange, ocket weld, SS, 2 in,	Manufacturer Stone and Webster Stone and Webster Western Forge and	Serial No. N/A N/A	Board No. N/A N/A	Identification Pipe Line 2-FNC-002- 128-3 Pipe Line 2-FNC-002- 128-3 Heat #	Built 1986 1986	Removed, or Installed Corrected Removed	Code Stampe (Yes or No) Yes No

1

FO	RM NIS-2 OW	NER'S REPO				ENT ACTI	VITY
NOP-CC-5703-02	Rev. 02	• · · · · • • • • • • • • • • • • • • •			Report N	lumber <u>3871</u>	
Tee, SS, 2 in, 3000#	Alloy Stainless Products	N/A	N/A	Heat # G86	2008	Installed	No
Flange, socket weld, SS, 2 in, 150#	Western Forge and Flange	N/A	N/A	Heat # 248072	2015	Installed	No
Flange, blind, SS, 2 in, 150#	Newman Flange and Fitting	N/A	N/A	Heat # H-554	2010	Installed	No
Pipe Line	FirstEnergy	N/A	N/A	2-FNC-002- 184-3	2015	Installed	No
Elbow, 90 deg, SS, 2 in, 3000#	Alloy Stainless Products	N/A	N/A	Heat # G85	2008	Installed	No
Elbow, 45 deg, SS, 2 in, 3000#	Alloy Stainless Products	N/A	N/A	Heat # K56	2014	Installed	No
Valve, ball, SS, 2 in	BNL Industries	A141009-9-1	N/A	Functional Location: 2FNC-200	2015	Installed	Yes
Studs, SS, 5/8 in	Trust Manufacturing	N/A	N/A	Heat # 557404	2011	Installed	No
Nuts, SS, 5/8 in	Nova Machine Products	N/A	N/A	Heat # 0B09	2006	Installed	No
7. Description	of Work Existing	pipe line 2-FNC-	002-128-3 was	modified to allow	/ installa	ation of Flex	Mod piping.
8. Tests Cond	Other [umatic* 🗌 🛛 N	lominal Operating psi Tes	g Pressi t Temp.		xempt 🗍 °F

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

NOP-CC-5703-02 Rev. 02

Report Number 3871

9. Remarks <u>Piping Isometric 2806.262-920-340 (107708) shows pipe line 2-FNC-002-128-3 was installed by Stone</u> <u>& Webster.</u> N5 Code Data Report for this isometric is part of System 20 package 1 (ID: 2SR-20-01-FNC); N5 Code Data Report starts on Film Number S1469 slide #1339; this item is identified on slide #1349.
Code data report for new valve 2FNC-200 is attached to this NIS-2 report. There are no prior NIS-2 reports. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer II</u> <u>Forme</u> Mules Date <u>Oct 15</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-24-14$</u> to <u>$16-27-15^{-1}$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dear J. Mining Commission <u>NB 942 8 ANTB</u> Inspector's Signature National Board Number and Endorsement
Date $10 - 27, 20 / 5 /$

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 BNL INDUSTRIES INC., 30 INDUSTRIAL PARK ROAD, VERNON, CT 06066 1. Manufactured and certified by ____ (name and address of N Certificate Holder) FIRST ENERGY SERVICE COMPANY, 76 SOUTH MAIN STREET, AKRON, OH 44308 2. Manufactured for _ (name and address of Purchaser) BEAVER VALLEY NUCLEAR POWER PLANT, 1 ROUTE 168, SHIPPINGPORT, PA 15077 3. Location of installation _ (name and address) HBV-A2-20-0115 D VALVE CRN 4. Model No., Series No., or Type _ _ Drawing _ Rev. 1971 W72 3 5. ASME Code, Section III, Division 1 [Addenda (if applicable) (date)] (edition) (class) (Code Case no.) VALVE 2" 2 6. Pump or valve ____ Nominal inlet size _ Outlet size . 7. Material Body SA-379 TY 304 Bonne 6A-479 TY 304 Disk SA-479 TY 304 Bolting SA-453GR 660 (a) valve (b) pump Casing_ Cover ____ Bolting. (a) Certificate (c) (d) (e) Disk (b) National Board Body/Cesing Serial Bonnet/Cover Serial Holder's Serial Serial No. No. No. No. No. 561G 468G A141009-9-(1) 10H

*Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 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)

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

			Cen	tificate Hold	ler's Seria	il No	A141009-9-(1)
					A	VSI 600 /	¥
8. Design conditions	(praseure)	(temperature)	or valve pressure class				
	1440 PSIG @100						
9. Cold working pressure		<u> </u>					
10. Hydrostetic test	2175 P\$IG	Disk differential test pressure		320	PSIG		-
11. Remarks							
		CERTIFICATION	of design				
	uted by	John W. Dingler		P.E. State	<u>IL</u>	Reg. n	0.0 <u>62-038953</u>
Design Specification cert							IO
Design Report Certified d	JY						
ASME Code, Section III, D	Division 1. ation No	CERTIFICATE OF C s report are correct and that N-2882 BNL INDUSTRIES, INC.		nor B	the rules	2016	
I, the undersigned, hold	ling a valid commis	CERTIFICATE OF Its ision issued by the National ONECIS INSURAN	Board of Boiler and Pr CE COMPANY			•	
of	LYNN, MA	· · · · · · · · · · · · · · · · · · ·	have inspected the pur	np, or valvi	e, describ	ed in thi	s Data Report on
3/20/15 in accordance with the AS	SME Code, Section II neither the inspecto ermore, neither the i	r nor his employer makes any inspector nor his employer shi d with this inspection.	warranty, expressed or all be liable in any mann	implied, co er for any p	ncerning (the com njury or	panent described property demege
		uthorized Neclesr Inspector)					

(07/11)

	02 Rev. 02				ection XI Report	t Number 3872	
1. Owner <u>F</u>	irstEnergy Nuclea	r Operating Co.		Date 10-13-2015			
_76 South	Main Street – Akr (ADDRESS)	on, OH 44308	- .	Sheet			
2. Plant	Beaver Valley P	ower Station (BV	PS)	Unit No.		#2	
<u>PO Box 4,</u>	(NAME) Shippingport, PA (ADDRESS)	15077			<u>ler # 200</u>	0630254 on P.O. No., Job No.,	
3. Work Perf	ormed By <u>BVPS</u>		vices	Type Code Symbo			
<u>PO Box 4,</u>	Shippingport, PA	. ,		Authorization No.		N/A	
	(ADDITEOU)			Expiration Date		N/A	
I. Identification	on of System <u>Ar</u>	ea Ventilation Sys	stem, BV-2-	44A-System (Clas	s 3)		
(b) Applicab (c) Applicab		I Utilized for Repair/Re se(s): <u>N/A</u>		ition, <u>1971</u> Addenda ≭ivity <u>2001 Edition to 2</u>			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stampeo (Yes or No)
Spool	Power Piping	N-1141-5053	N/A	Pipe Line 2-SWS-003- 52-3	1980	Corrected	Yes
SWS-44-3D				52-5			
	Power Piping	N-1141-5057	N/A	Pipe Line 2-SWS-004- 44-3	1980	Corrected	Yes
SWS-44-3D Spool	Power Piping WeldBend	N-1141-5057 N/A	N/A N/A	Pipe Line 2-SWS-004-	1980 2015	Corrected	Yes
SWS-44-3D Spool SWS-52-1A Reducer,				Pipe Line 2-SWS-004- 44-3 Heat #			

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. 02	Report Number <u>3872</u>
8. Tests Conducted:	Hydrostatic* Pneumatic* Nominal Operating Pressure Exempt Other Pressure psi Test Temp. *Record test pressure and temperature *F
9. Remarks <u>Affected pi</u> <u>Data Report for these sp</u> <u>Film Number S1282, the</u>	ping isometrics are 173001 (spool SWS-44-3D) and 173002 (spool SWS-52-1A); N5 Code mools is part of System 30 package 09 (ID: 2-SR-30-09A-SWS). N5 Code Data Report is on se spools are identified on slide #11 and 12. -SWS-004-44-3 are #814 and #1191; prior NIS-2 report for 2-SWS-003-52-3 is #1190. Applicable Manufacturer's Data Reports to be attached
Code, Section XI. Type Code Symbol Star Certificate of Authorizati	ko, Engineer III tomas Mullos Date Oct 13, 20 15
Owner or C	Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION
and employed by described in this Owner and state that to the best measures described in	ing a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors <u>ISB Global Standards</u> of <u>Hartford, CT</u> have inspected the components is Report during the period <u>$5-24-144$</u> to <u>$10-13-154$</u> , at of my knowledge and belief, the Owner has performed examinations and taken corrective this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
concerning the examination inspector nor his emploking arising from or con	the neither the inspector nor his employer makes any warranty, expressed or implied, ations and corrective measures described in this Owner's Report. Furthermore, neither the yer shall be liable in any manner for any personal injury or property damage or a loss of any nected with this inspection. D_{1} , D_{2} , D_{3} , $D_$
Date 10-13	

F(ORM NIS-2 OV	VNER'S REPO						Ινιτγ
NOP-CC-5703-0							Number <u>3876</u>	
1. Owner <u>Fi</u>	rstEnergy Nuclear (NAME)	Operating Comp	any	Date <u>11/1</u>	1/2015			
76 South	Main Street – Akro (ADDRESS)	on, OH 44308	-	Sheet			of1	
2. Plant	Beaver Valley P	ower Station (BV	PS)					
<u>P.O. Box 4</u>	, Shippingport, PA (ADDRESS)	15077		Repair			459075 on P.O. No., Job No., 1	etc.
3. Work Perfo	ormed By <u>BVPS I</u>	Mechanical Maint	enance	Type Code	Symbol	Stamp	N//	۹
<u>P.O. Box 4</u>	, Shippingport, PA (ADDRESS)	15077					N/A	
				Expiration I				
4. Identificatio	on of System <u>Co</u>	ontainment Depre	ssurization	System, BV	<u>-2-13-S</u>)	<u>/stem (</u>	Class 2)	
(b) Applicab	e Construction Code <u>§</u> le Edition of Section X le Section XI Code Ca	Utilized for Repair/R						
6. Identificatio	on of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board No.	Ot	her fication	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	Joseph Oat Corporation	2189-1C	892	2RSS	-E21C	1976	Corrected	Yes
Tube Plug	Joseph Oat Corporation	N/A	N/A	Heat #	# 6464	2003	Installed	No
7. Description	of Work <u>Plugged</u>	and welded one t	ube.					
8. Tests Cond	ucted: Hydrosta Other		matic* 🗌		• •		ure 🔲 Ex	xempt ⊠ °F
	*Record test p	ressure and temperature						
	ode Data Report f heat exchanger ai	e: 243, 536, 105	<u>8, 1962.</u>	1C is attach		<u>5-2 Re</u> p	oort #243. Pr	ior NIS-2

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3876</u>
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed <u>Thomas M Calko, Engineer III</u> formes M Calko Date <u>Nov 11</u> , 20 <u>15</u> Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5-24-14$</u> to <u>$10-30-15$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dear L. Juli Inspector's Signature Commission <u>NB 9428 ANIB</u> National Board Number and Endorsement
Date, 20 //

F	ORM NIS-2 OV	VNER'S REPC As Required by the					MENT ACT	Ίνιτγ
NOP-CC-5703-0	2 Rev. 02				2 0000 00		Number <u>3877</u>	
1. Owner <u>Fi</u>	rstEnergy Nuclear	Operating Co.	-	Date <u>10</u>	-30-2015			· · · · · · · · · · · · · · · · · · ·
76 South	Main Street – Akr (ADDRESS)	on, OH 44308	-					
2. Plant	Beaver Valley P	ower Station (BV	<u>PS)</u>	Unit No.			#2	
<u>PO Box 4,</u>	Shippingport, PA (ADDRESS)	15077		Re	Ord pair/Replaceme	er # 200 nt Organizati	0655260 on P.O. No., Job No.,	etc.
3. Work Perfo	ormed By <u>BVPS</u>	Construction Serv	<u>vices</u>	Туре Сос	de Symbo	l Stamp	N/.	A
<u>PO Box 4, -</u>	Shippingport, PA (ADDRESS)	15077					<u>N/A</u>	
4. Identificatio	on of System Sa	afety Injection Sys	ا <u>stem, BV-2</u> -^		n Date <u>1 (Class 2</u>			
5. (a) Applicable (b) Applicabl	Construction Code	SME Section III	Edi	ition, <u>1974</u>	Addenda,	<u>S'75</u>	Code Case <u>N/A</u>	
6. Identificatio	n of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.		Other htification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	Copes-Vulcan	7720-95387- 290-3	1897	25	SIS-66	1978	Corrected	Yes
Plug	SPX Process Equipment	0921-166545- 1-1	N/A		N/A	2009	Installed	Yes
7. Description eplacement kit	of Work <u>Valve wa</u>	as disassembled,	inspected, a	and reass	embled w	ith com	ponents from	valve trim
3. Tests Condu	Other		matic* 🗌				ure 🗌 E>	kempt ⊠ °F
. Remarks <u>Co</u> eport. Prior wo ttached to NIS-	<u>ork done on this va</u>	or the plug installe alve is documente Applicable Manuf	ed from the ed in NIS-2 # facturer's Data Repo	<u> </u>	e N5 Data	<u>ent kit i</u> a Report	s attached to for this valve	this NIS-2 e is also

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI
NOP-CC-5703-02 Rev. 02 Report Number <u>3877</u>
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u> Signed <u>Thomas M Calko, Engineer III tome</u> Out <u>Date</u> <u>Oct 30</u> , 20 <u>15</u>
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5 - 24 - 14$</u> to <u>$10 - 30 - 15^{-1}$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspector's Signature National Board Number and Endorsement Date

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. 1of_

1. Manufactured and certified bySPX Process Equipment, (name and	Copes-Vulcan Operation, 5620 West Road, address of NPT Certificate Holder)	McKean, PA
2. Manufactured for First Energy Corp., Johnstow, PA (name and	d address of purchaser)	
3. Location of Installation Beaver Valley Nuclear Power F (name and	Plant, Shippingport, PA	
4. Type	88.2 ksi N/A (tensile strength) (CRN)	2009 (year built)
5. ASME Code, Section III, Division 1 1974 (edition)	Summer 75 2 (addenda date) (class)	N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) (no.)	N/A Revision N/A	Date N/A
7. Remarks:Plug for 2" Class 1500 Valve per Assembly Draw	ving D-389327 Rev. 4	
Customer PO 45308095	SPX Ref. Job 7710-95387	

N/A

8. Nom. thickness (in.) <u>N/A</u> Min. design thickness (in.)

. . ٠,

_Dia. ID (ft & in.) Length overall (ft & in.) <u>N/A</u>

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

Appurtenance Serial Number	National Board No. in Numerical Order	Appurtenance Serial Number	National Board No. in Numerical Order
(1)_0921-166545-1-1(0) (2)(3)(4)(5)(6)*Acceptable per NC212 (7)(7	901)	(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 2485 psi. Temp._ <u>650</u>

 10. Design Pressure
 2485
 psi.
 Temp. 650
 f. Hydro. Test Pressure
 M/A
 at temp F

 • Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is B1/2 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.

FORM	N-2	(Back —	Pg 2	! of)	

		0921-16	8545.
		Certificate Holder's 1-1	
CERTIFICATION OF DESIGN Design specifications certified by	<u>N/A</u>	P.E. State	Reg. no
Design report* certified by	(when applicable) N/A (when applicable)	P.E. State	Reg. no
CERTIFICATE OF COMPLIANCE We certify that the statements made conforms to the rules of construction IPT Certificate of Authorization No. Pate2 Name	of the ASME Code, Section	ExpiresSigned	a 10/5/2010 (Suthorized representative)
r Province of <u>Penna</u> If <u>Lynn, MA</u> have in: est of my knowledge and belief, the ode Scalar III Division 1 Each par	and employed by <u>OneBe</u> spected these items describe Certificate Holder has fabric	acon America Insurance Col ed In this Data Report on ated these parts or appurter for stamping on the date sh	hances in accordance with the ASME own above.

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F	ORM NIS-2 OV	VNER'S REPO As Required by the					MENT ACT	Ίνιτγ
NOP-CC-5703-0	2 Rev. 02	. ,					Number <u>3879</u>	
1. Owner <u>Fir</u>	stEnergy Nuclear (NAME)	Operating Comp	bany	Date <u>11/</u>	2/2015			
76 South	Main Street – Akro (ADDRESS)	on, OH 44308	-	Sheet			of12	
2. Plant	Beaver Valley P	ower Station (BV		Unit NO.			.2	
<u>P.O. Box 4</u>	, Shippingport, PA (ADDRESS)	15077		Rep		der 2006 nt Organizati	055277 on P.O. No., Job No.,	etc.
3. Work Perfo	rmed By Westing	(NAME)	ergy	Type Cod	le Symbo	ol Stamp	•N//	Α
Lake Bluff,			·	Authoriza	tion No.		N/A	
	(ADDRESS)			Expiratior	Date		N/A	
4. Identificatio	n of System <u>Re</u>	actor Coolant (C	lass 1)			_		_
(b) Applicabl (c) Applicabl	Construction Code A e Edition of Section XI e Section XI Code Cas n of Components	Utilized for Repair/R						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	_	ther	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Reactor Vessel	Combustion Engineering	CE-9071	21669		2RCS- EV21	1975	Corrected	Yes
identified "Spec and was accept showed that wh reflector. The in	of Work <u>Penetrat</u> ial Interest" ultras table per ASME S ile the indication indication was rem xamination result	onic reflector. The ection III. Opera was acceptable poved by buffing a	ne indication ting experier per ASME, it and the area	for this pend the from the could be cou	enetration ooth Beav connecte	n was lo /er Valle d to the	<u>cated in the j</u> y Unit 2 and "Special Inte	<u>-groove weld</u> external utilities rest" ultrasonic
8. Tests Condu	cted: Hydrosta	itic* 🗌 🛛 Pneu	matic* 🔲	Nominal	Operatin	a Pressi	ure 🗌 Ex	kempt 🛛
	Other 🗌					t Temp.		°F
	netration 53 had	a 1/16" rounded o				was rem	noved by buff	ing. The
		Applicable Ma	anufacturer's Data Re	eports to be atta	ched			
	. <u> </u>					·		

FORM NIS-2 OWNER'S REPORT FOR REI As Required by the Provisions of the	
NOP-CC-5703-02 Rev. 02	Report Number 3879
CERTIFICATE OF CC	MPLIANCE
I certify that the statements made in the report are correct and th Code, Section XI.	at this conforms to the requirements of the ASME
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u>	Expiration DateN/A
Signed Ever TV Owner or Owner's Designee, Title	Date 1224, 2015
CERTIFICATE OF INSERVI	
I, the undersigned, holding a valid commission issued by the National and employed by <u>HSB Global Standards</u> of <u>Hartfor</u>	d, CT have inspected the components
described in this Owner's Report during the period $5^{}$ and state that to the best of my knowledge and belief, the Owner measures described in this Owner's Report in accordance with the	has performed examinations and taken corrective
By signing this certificate neither the inspector nor his employer r concerning the examinations and corrective measures described	in this Owner's Report. Furthermore, neither the
inspector nor his employer shall be liable in any manner for any p kind arising from or connected with this inspection.	ersonal injury of property damage of a loss of any
Dear Signature Commission	National Board Number and Endorsement
Date, 20	

NOP-CC-5703-0							
	02 Rev. 02				Repor	t Number 3883	
1. Owner <u>Fi</u>	irstEnergy Nuclea	r Operating Co.	_	Date <u>11-3-2015</u>			
<u>76 South</u>		ron, OH 44308		Sheet	1	of1	
	(ADDRESS)		1	Jnit No.		#2	
2. Plant	Beaver Valley F	Power Station (BV	<u>PS)</u>				
<u>PO Box 4,</u>	Shippingport, PA	15077	-		ler # 200	0468198	
3 Work Perf	ormed By <u>BVPS</u>	Mochanical Maint				ion P.O. No., Job No.,	
	onned by <u>bvr3</u>	(NAME)	enance i	ype Code Symbo	ol Stamp	• <u>N/</u>	<u>A</u>
<u>PO Box 4,</u>	Shippingport, PA (ADDRESS)	15077	A	uthorization No.		N/A	
			E	xpiration Date	<u> </u>	N/A	
Identificatio	on of System <u>E</u>	mergency Diesel (<u>Generator, B\</u>	/-2-36-System (C	lass 3)		
	e Construction Code					Code Case <u>N/A</u> nda	
	le Section XI Code Ca						
. Identificatic	on of Components						
Nome of	Name of		National			Corrected, Removed,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built		Code Stamper
			Board			Removed, or	
Component	Manufacturer Stone &	Serial No.	Board No.	Identification Pipe Line 2- EGS-150-	Built	Removed, or Installed	Code Stampe (Yes or No)
Component Pipe line	Manufacturer Stone & Webster Stone &	Serial No. N/A	Board No. N/A	Identification Pipe Line 2- EGS-150- 016-3 Pipe Line 2- EGS-150-	Built 1987	Removed, or Installed Corrected	Code Stamper (Yes or No) No
Component Pipe line Pipe line Pipe, CS, .5", Sch 80	Manufacturer Stone & Webster Stone & Webster Michigan Seamless	Serial No. N/A N/A N/A	Board No. N/A N/A	Identification Pipe Line 2- EGS-150- 016-3 Pipe Line 2- EGS-150- 017-3 Heat # 00A106015	Built 1987 1987 2011	Removed, or Installed Corrected Corrected Installed	Code Stamper (Yes or No) No No
Component Pipe line Pipe line Pipe, CS, .5", Sch 80 Description of	Manufacturer Stone & Webster Stone & Webster Michigan Seamless Tube	Serial No. N/A N/A N/A	Board No. N/A N/A	Identification Pipe Line 2- EGS-150- 016-3 Pipe Line 2- EGS-150- 017-3 Heat # 00A106015	Built 1987 1987 2011	Removed, or Installed Corrected Corrected Installed	Code Stamper (Yes or No) No No
Component Pipe line Pipe line Pipe, CS, .5", Sch 80 Description of	Manufacturer Stone & Webster Stone & Webster Michigan Seamless Tube	Serial No. N/A N/A N/A	Board No. N/A N/A	Identification Pipe Line 2- EGS-150- 016-3 Pipe Line 2- EGS-150- 017-3 Heat # 00A106015	Built 1987 1987 2011 replace	Removed, or Installed Corrected Corrected Installed ment of two n	Code Stampe (Yes or No) No 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. 02

Report Number 3883

9. Remarks <u>Piping Isometric 2806.259-920-950 (730-042) shows the pipe that was replaced as item #20. The N5</u> Code Data Report for pipe lines 2-EGS-150-016-3 and 2-EGS-150-017-3 are part of System 36 package 02 (ID: 2- SR-36-02). N5 Code Data Report is on Film Number S1134, the replaced pipe is identified on slide #1738. Applicable Manufacturer's Data Reports to be attached						
CERTIFICATE OF COMPLIANCE						
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.						
Type Code Symbol Stamp <u>N/A</u>						
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>						
Signed <u>Thomas M Calko, Engineer III Fromas M Cultos</u> Date <u>Nov 3</u> , 20 <u>15</u> Owner or Owner's Designee, Title						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>$5 - 24 - 14$</u> to <u>$16 - 30 - 15^{\circ}$</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
Date, 20 /5						

NOP-CC-5703-0		As Required by the					Number <u>3886</u>	
1. Owner FirstEnergy Nuclear Operating Company				Date <u>11/11/2015</u>				
76 South Main Street – Akron, OH 44308 (ADDRESS)			Sheet Unit No	1		of1		
2. Plant <u>Beaver Valley Power Station (BVPS)</u>								
P.O. Box 4, Shippingport, PA 15077 (ADDRESS)			Order #200663970 Repair/Replacement Organization P.O. No., Job No., etc.					
3. Work Performed By <u>BVPS Mechanical Maintenance</u>			Type Code Symbol StampN/A				A	
P.O. Box 4, Shippingport, PA 15077			Authorization	No		N/A		
	(ADDRESS)			Expiration Dat	te _		N/A	
(c) Applicab	le Edition of Section XI le Section XI Code Cas on of Components		eplacement A		2003 Ac	1	Corrected, Removed,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.			Year Built	or Installed	Code Stamped (Yes or No)
Heat Exchanger	Atlas Industrial Mfg Co.	3180	2558	2CHS-E	24	1977	Corrected	Yes
Stud, 1-5/8"	Nova Machine Products	N/A	N/A	Heat # 2	U99	2009	Installed	No
Nuts, 1-5/8"	Nova Machine Products	N/A	N/A	Heat # M	738	2004	Installed	No
7. Description	of Work <u>Replaced</u>	stud and nuts.			••••••			······································
3. Tests Cond	Other 🗌		matic* 🗌	Nominal Ope psi	-		ure 🗌 E>	xempt ⊠ °F

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

NOP-CC-5703-02 Rev. 02

Report Number 3886

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9. Remarks <u>Piping isometric 2806.258-920-406 (110-312) shows heat exchanger 2CHS-E24</u> . The N5 Code Data <u>Report for this heat exchanger is part of System 7 package 04 (ID: 2-SR-7-04-CHS)</u> . N5 Code Data Report is on <u>Film S1345 and starts on slide #642</u> .						
·· · · ·						
CERTIFICATE OF COMPLIANCE						
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.						
Type Code Symbol Stamp <u>N/A</u>						
Certificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>						
Signed <u>Thomas M Calko, Engineer III</u> Loma M Cullos Date <u>Nov 11</u> , 20 <u>15</u> Owner or Owner's Designee, Title						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors						
and employed by						
described in this Owner's Report during the period $5-24-14$ to $10-30-15$,						
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective						
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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. ynh Commission NB9428 ANIB						
Dean J. Juk Inspector's Signature Commission <u>NB942 & ANTB</u> National Board Number and Endorsement						
Date, 20 /5						

F	ORM NIS-2 OV	VNER'S REPC		REPAIRS/REPL		MENT ACT	IVITY	
NOP-CC-5703-0	02 Rev. 02					Number 3887		
1. Owner FirstEnergy Nuclear Operating Company (NAME)				Date <u>10/30/2015</u>				
76 South Main Street – Akron, OH 44308 (ADDRESS)				Sheet1 Unit No.				
2. Plant	Beaver Valley P	ower Station (BV	PS)	onit 140		2		
P.O. Box 4, Shippingport, PA 15077 (ADDRESS)				Order Nos.: 200465407 Repair/Replacement Organization P.O. No., Job No., etc.				
3. Work Performed By <u>BVPS Mechanical Maintenance</u> (NAME)				Type Code Symbol Stamp <u>N/A</u>				
<u>P.O. Box 4</u>	A Shippingport, PA	15077		Authorization No.				
4. Identificatio	on of System <u>Re</u>	<u>actor C</u> oolant (C		Expiration Date _		<u>N/A</u>		
5. (a) Applicable(b) Applicable(c) Applicable		Section III Utilized for Repair/Re	<u>1971 Edition, V</u>	<u>V'72</u> Addenda, Code C tivity <u>2001E-2003A</u>	ase <u></u>			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Relief Valve	Crosby	N56963-01- 0010	N/A	2RCS-RV551C	1980	Removed	Yes	
Relief Valve	Crosby	N56963-00- 0007	N/A	2RCS-RV551C	1976	Installed	Yes	
1-3/8" Stud	Nova Machine	N/A	N/A	Trace Code: 9N14	2014	Installed	No	
1-3/8" Stud	Nova Machine	N/A	N/A	Trace Code: 05S0	2014	Installed	No	
1-3/8" Nut	3/8" Nut Nova Machine N/A N/A		N/A	Lot #50461626	2015	Installed	No	
Description	of Work <u>Replaced</u>	valve, studs and	nuts.		I	I		
Tests Condu	icted: Hydrosta Other □	tic*	natic* 🗌	Nominal Operating	Pressu Temp.	re 🛛 Ex	empt 🗌 °F	

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

As Required by the Provisions of the ASME Code Section XI

Report Number 3887

NOP-CC-5703-02 Rev. 02

*Record test pressure and temperature

9. Remarks Copy of NV-1 Form for replacement valve attached to previous NIS-2 Data Report No. 202. NVR-1							
Applicable Manufacturer's Data Reports to be attached							
Data Report of Repair attached for Order 55115381 by NWS Technologies. No Code Data 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 <u>N/A</u>							
Certificate of Authorization No. N/A Expiration Date N/A							
(A of							
Signed Thomas White ALC Engineer V Date October 30th , 20 15							
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 employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected the components							
described in this Owner's Report during the period $5-24-14$ to $10-30-15$,							
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective							
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.							
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,							
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the							
inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any							
kind arising from or connected with this inspection.							
Commission 189428 ANTA							
Dean S. Junk Commission NB 9428 ANTB Inspector's Signature National Board Number and Endorsement							
Date, 20 _/5							

FORM NVR-1 REPORT OF REPAIR 🗹 REPLACEMENT 🗖 OF NUCLEAR PRESSURE RELIEF DEVICES

1. Work performed by: NWS Technologies, LL	<u> </u>						
131 Venture Boulevard, Spar	tenhum oc	200222	er #_ <u>55115381</u>				
2. Work performed for: First Energy Corporation Rea							
3/4. Owner - name, address and identification of nucle P.O. Box 4, Shippingport, PA 15077	ar power plar		alley Power Static				
 5. a: Repaired pressure relief device: Pressurizer S b: Name of manufacturer: Crosby Valve & Gage C c: Identifying nos. 	afety Valve						
	0007						
(type) (mfr's S/N		Va stear B#) (sarvic					
d. Construction Code: <u>ASME / III / 1</u>	<u>1971</u>	B#) (servic W '72	e) (size) N/a	(yr.built)			
(name/section/division)	(edition)		(Code Cases(s))	(Code Class)			
6. ASME Code Section XI applicable for inservice inspe		2001	2003	n/a			
7. ASME Code Section XI used for repairs, replacement	ts:	(edition) 2001	(addenda)	(Code Case(s))			
8. Construction Code used for repairs, replacements:	•	(edition)		N/a (Code Case(s))			
	•	1971	W'72	n/a			
9. Design responsibilities: <u>n/a</u>		(edition)	(addenda)	(Code Case(s))			
10. Opening pressure: 2485 psig							
Set-pressure adjustment made at: NWS Tech	nologies, LLC	usin					
11. Description of work (include name and identity)							
inspected, VT-3 of valve body and components, VT- assembled. Certified set-pressure using steam. Jack	1 of bolting, la	apped seats, c	eaned buffed in	sembled,			
assembled. Certified set-pressure using steam. Jack nitrogen. Bellows/gasket integrity tested SAT using g	ed and Lapp	ed. Certified s	eat tightness usin	g daseous			
12. Remarks: NWS Traveler #: 14-158. No parts replace	aseous nitrog	jen					
I, Jason C. Gibson certify that to the best of m report are correct and the repair, modification or replacem							
report are correct and the repair, modification or replacent conforms to Section XI of the ASME Code and the Nation	nent of the pr	essure relief d	Statements mad	e in this			
Induorial Doard Certificate of Authorization No.			VK" 9777 "ND" mil	adove es.			
National Board Certificate of Authorization No. 632 81		vr sumbern	nres <u>April 3, 2</u>	015.			
5/8/14 NWS Technologies, LLC							
IDate Repair Organization	Authorized	representative	Mana	ger, QA			
Charles E Toosal built	DE INSPECT	ON		Title			
			atd of Roller and	Denseu			
DV HSB Global Standarde	une junisationi	un or North	Carolina and e	mployed			
or replacement described in this report on a state	Hartford, CT	nave insp	ected the repair.	modification			
this repair, modification or replacement has been complete Code and the National Board Inspection Code "VR" and "N	anu state ma 30 in accorda	it to the best o nce with Secti	f my knowledge a	nd belief,			
COUL and the National Board Inconstant Order many			hind of the of the				
By signing this certificate, neither the undersigned nor my e concerning this repair, modification or replacement describe	mployer mai	es any warra	nty, expressed or	implied.			
nor my employer shall be liable in any monther for	ed in this rep onal inium	ort. Furthermo	re, neither the un	dersigned			
ansing from or connected with this inspection.	vital injury, pr	openy damag	e or loss of any k	ind			
5/8/14 Charles Freige	NR # 9	462, A, N, I					
inspector's Signature	Commis	sions (NB (Incl en	NC# 1073 dorsements), jurisdict				
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