

Ernest J. Harkness
Vice President440-280-5382
Fax: 440-280-8029July 22, 2015
L-15-165

10 CFR 50.55a(g)

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

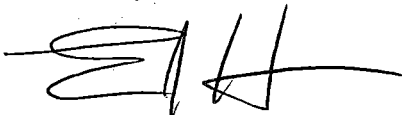
SUBJECT:

Perry Nuclear Power Plant
Docket No. 50-440, License No. NPF-58
Perry Nuclear Power Plant Fifteenth Inservice Inspection Summary Report

In accordance with American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, "Inservice Inspection," 2001 Edition through 2003 Addenda, Article IWA-6000, enclosed is the fifteenth Form NIS-1 *Owners Report for Inservice Inspections*, including its attached Inservice Inspection Summary Report for the Perry Nuclear Power Plant. The enclosure documents the inservice examination activities conducted after the return to commercial operation following the fourteenth refueling outage, through completion of the fifteenth refueling outage (May 17, 2013 to April 24, 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,



Ernest J. Harkness

Enclosure: Form NIS-1 *Owners Report For Inservice Inspections*, including attached Inservice Inspection Summary Report for the Perry Nuclear Power Plantcc: NRC Region III Administrator
NRC Resident Inspector
NRC Project Manager
Authorized Nuclear Inservice Inspector
Ohio Department of Commerce, Boiler Inspection SectionA047
NRR

Enclosure
L-15-165

**Form NIS-1 *Owners Report For Inservice Inspections*,
including attached Inservice Inspection Summary Report
for the Perry Nuclear Power Plant**

Consists of Form NIS-1 (3 pages),
and its attached Summary Report P1059-0015 (302 pages)

FORM NIS-1 OWNERS REPORT FOR INSERVICE INSPECTIONS

As required by the provisions of the ASME Code Rules

1. Owner FirstEnergy Nuclear Generation, LLC, 76 South Main Street, Akron, OH 44308
(Name and Address of Owner)
2. Plant Perry Nuclear Power Plant, 10 Center Road, Perry, OH 44081
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 11/18/87 6. National Board Number for Unit N/A
7. Components Inspected (only the systems with Class 1 and 2 components are listed in following table)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	PNPP System Designation	National Board No.
Reactor Vessel	GE/CBIN	T-49	1B13	15
Reactor Vessel	GE/A&ES	1B13	1B13	64077
Nuclear Boiler System	GE/A&ES	1B21	1B21	64084
Nuclear Boiler System	Pullman Power Products	1B21	1B21	109
Reactor Recirculation System	GE/A&ES	1B33	1B33	64076
Reactor Recirculation System	Pullman Power Products	1B33	1B33	119
Control Rod Drive Hydraulic Control System	Pullman Power Products	1C11	1C11	92
Standby Liquid Control System	Pullman Power Products	1C41	1C41	108
Containment Atmosphere Monitoring	Johnson Controls	1D23-0064-F	1D23	008
Residual Heat Removal System	Engineers & Fabricators Company	1E12	1E12	1621
Residual Heat Removal System	Pullman Power Products	1E12	1E12	83
Containment Spray System	Pullman Power Products	1E15	1E15	105
Low Pressure Core Spray System	Pullman Power Products	1E21	1E21	85
High Pressure Core Spray System	Pullman Power Products	1E22	1E22	86
Leak Detection System	Johnson Controls	1E51-0068-F	1E31	15
Main Steam Isolation Valve Leakage Control System	Pullman Power Products	1E32	1E32	104
Reactor Core Isolation Cooling System	Pullman Power Products	1E51	1E51	84

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

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 (Name and Address of Owner)
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3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 11/18/87 6. National Board Number for Unit N/A
7. Components Inspected (only the systems with Class 1 and 2 components are listed in following table)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	PNPP System Designation	National Board No.
Integrated Leak Rate System	Pullman Power Products	1E61	1E61	120
Fuel Transfer System	General Electric	1F42	1F42	64079
Reactor Water Cleanup System	GE/A&ES	1G33	1G33	64075
Reactor Water Cleanup System	Pullman Power Products	1G33	1G33	100
Fuel Pool Cleaning System	Pullman Power Products	1G41	1G41	95
Suppression Pool Drain and Cleanup System	Pullman Power Products	1G42	1G42	96
Suppression Pool Makeup System	Johnson Controls	1G43-0065-F	1G43	019
Containment Vessel Purge System	Pullman Power Products	1M14	1M14	113
Drywell Vacuum Relief System	Pullman Power Products	1M16	1M16	115
Containment Vacuum Relief System	Pullman Power Products	1M17	1M17	87
Combustible Gas Control System	Pullman Power Products	1M51	1M51	106
Main Steam System	Pullman Power Products	1N11	1N11	111
Main, Reheat, and Miscellaneous Drains	Pullman Power Products	1N22	1N22	112
Feedwater System	Pullman Power Products	1N27	1N27	89
Condenser Transfer and Storage System	Pullman Power Products	1P11	1P11	102
Mixed Bed Demineralizer Water Sys.	Pullman Power Products	1P22	1P22	73
Nuclear Closed Cooling System	Pullman Power Products	1P43	1P43	101
Containment Chilled Water System	Pullman Power Products	1P50	1P50	103
Service Air System	Fisher Controls	6393471	1P51	6170
Instrument Air System	Pullman Power Products	1P52	1P52	74
Post Accident Sampling System	Johnson Controls	1P87	1P87	034
Containment System	Newport News	NNI-OS-02	1T23	N/A

FORM NIS-1 (Back)

- 8. Examination Dates 5/17/13 to 4/24/15
- 9. Inspection Period Identification: Second Period
- 10. Inspection Interval Identification: Third
- 11. Applicable Edition of Section XI 2001 Addenda 2003
- 12. Date/Revision of Inspection Plan: PNPP Inservice Examination Program Plan Revision 17, dated 2/5/15
- 13. Abstract of Examinations and tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.
See attached summary report P1059-0015*
- 14. Abstract of Results of Examinations and Tests.
See attached summary report P1059-0015*
- 15. Abstract of Corrective Measures.
See attached summary report P1059-0015*

* Report is 302 pages in length.

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 07/16/2015 Signed FENOC By Stanley V. Gorski Stanley V Gorski
Owner For Polly Boissoneault

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 Ohio and employed by HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 5/17/13 to 4/24/15, 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 inspection plan and as required by 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 the 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.

Stanley V. Gorski Commissions 14551ANI OH1197
Inspector's Signature National Board, State, Province, and Endorsements
Date 7/16/15

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1

LOCATED AT: 10 Center Road
Perry, Ohio 44081

OWNER: FirstEnergy Nuclear Generation, LLC
76 South Main Street
Akron, Ohio 44308

REACTOR SUPPLIER: General Electric Corporation
175 Curtner Avenue
San Jose, California 95125

NRC DOCKET NUMBER: 50-440
FACILITY FULL POWER LICENSE: NPF-58
CAPACITY, Mwe: 1305
COMMERCIAL OPERATION DATE: November 18, 1987
INSPECTION INTERVAL: May 18, 2009 - May 17, 2019
INSPECTION PERIOD: Second (May 18, 2013 - May 17, 2017)
REFUELING OUTAGE: 1R15
DOCUMENT COMPLETED: July 16, 2015

ABSTRACT

Perry Nuclear Power Plant (PNPP) Unit 1 was shut down for forty-six (46) days to refuel the reactor vessel [Refueling Outage 15(1R15)] and perform plant maintenance commencing March 9, 2015. During the refueling outage, and during the preceding operating cycle, inservice examinations were performed to comply with plant Operational Requirements Manual and the 2001 Edition through the 2003 Addenda of ASME Section XI.

ASME Section XI requires reporting of examination results for Class 1 and 2 pressure retaining components and their supports. This report summarizes the results of Class 1 and 2 examinations, including Class 3 and Augmented examinations, which were performed in accordance with the schedules within PNPP's Inservice Examination Program Plan (ISEP), Revision 17 and Boiling Water Reactor Vessel and Internals Project (BWRVIP) Program, TAI-0507 Revision 8.

Routine Section XI volumetric, surface and visual examinations were performed on Class 1, 2 and 3 piping systems and pressure retaining components.

Automated ultrasonic examinations were performed on all twelve (12) of the reactor pressure vessel (RPV) longitudinal welds, as well as the shroud plate to vessel attachment H9 weld. The H9 weld was examined in accordance with the BWRVIP program. No flaws were identified in the RPV longitudinal welds, however additional manual exams will be required in later outages due to interferences that affected automated tooling used. A fabrication flaw approximately 1" in length was identified at the H9 weld to weld build-up interface and was dispositioned as acceptable. Peer checks of the ultrasonic data were performed by the Electric Power Research Institute (EPRI), who concurred with the conclusions.

Major modifications which occurred during 1R15 include replacement of the Reactor Pressure Vessel bottom head drain line and installation of Fukushima FLEX modifications. FLEX modifications involved modification of Class 2 piping in the Reactor Core Isolation Cooling system, Class 3 piping in the Emergency Service Water and Fuel Pool Cooling and Cleanup systems and installation of two new Class 3 pipe supports.

In-vessel examinations consisted of the required Code visual examinations along with augmented visual examinations of numerous vessel interior components. The augmented visual exams were primarily conducted in accordance with the BWRVIP inspection guidelines. Condition monitoring examinations were performed to inspect conditions originally identified in RFO12. These included inspections of jet pumps 13 and 14. No signs of additional wedge or restrainer bracket wear was identified, but the vessel side of the set screw for jet pump 14 was found to have a 0.029 inch gap. Wedge tapping was used to reduce the gap to 0.012 inches, within the acceptance criteria of 0.020 inches. This is documented on condition report CR-2015-07022. Ultrasonic examinations were performed on core shroud horizontal welds H3, H4, H6A and H7 utilizing the Westinghouse MAXUM tool, achieving greater than 70% coverage on all welds. This is the third time these welds have been examined volumetrically. Nine (9) non-geometric indications were recorded on the upper side of the H7 weld, which had been previously identified in RFO10. There was no significant change identified in these indications during the most recent examination. This is documented on condition report CR-2015-07023.

1R15 was the first refueling outage of the second inspection period within Perry's third 10-year inservice inspection interval. The completion of the Cycle 15 and 1R15 examinations, combined with examinations to be performed in Cycle 16 and 1R16, will fulfill the required minimum percentage of exams for the second period.

One ASME Form NIS-2 will not be included in this submittal due to missing the ASME Code Data Report, Form N-2 from the manufacturer. This order has been left open and the issue entered into the station's corrective action program as condition report CR-2015-08911. The form will be included in the Cycle 16/1R16 report.

One ASME Form NIS-2 from the previous cycle has been included in this package due to a typo being discovered. NIS-2 form No. 1P11-012 contained typos and has been corrected. This issue was documented on condition report CR-2013-18684.

One ASME Form NIS-2 has been included from 2011. During internal review, it was found that the form had not been generated following order close out. This issue has been entered into the station's corrective action program as condition report CR-2015-09545.

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1.0 INTRODUCTION

The information provided herein is supplied to document compliance with ASME B&PV Code, Section XI requirements for reporting inservice inspection results for Class 1 and Class 2 pressure retaining components and their supports. Examination results of Class 3 and Augmented components and their associated supports are also included in this report as supplemental information.

This report covers inservice inspection activities performed from Perry Nuclear Power Plant (PNPP)'s return to commercial operation after refueling outage 1R14 (May 17, 2013) through the completion of 1R15 (April 24, 2015), with exceptions and omission identified in the abstract.

Included in this report are the following:

- Personnel and equipment listings
- Examination results summaries
- NIS-2/NR-1 Reports
- Other pertinent information

2.0 REFUELING OUTAGE DURATION

The Perry Nuclear Power Plant, Unit 1, was shut down for 1R15 from March 9, 2015 to April 24, 2015. The plant returned to commercial operation on April 24, 2015, at 17:27. This is noted as the time when the generator was synchronized to the grid.

3.0 CODE REQUIREMENTS

The inservice inspections were conducted in accordance with the requirements of ASME B&PV Code, Section XI, Division 1, 2001 Edition through the 2003 Addenda, with Code Cases N-457, N-460, N-461-1, N-513-3, N-526, N-528-1, N-532-4, N-537, N-552, N-566-2, N-578, N-586-1, N-599, N-613-1, N-624, N-648-1, N-652-1, N-658, N-663, N-664, N-683, N-685, N-686, N-695, N-700, N-735 and N-747.

4.0 INSPECTION

Inspection activities were conducted by Authorized Nuclear Inservice Inspection personnel from The Hartford Steam Boiler Inspection and Insurance Company of Connecticut.

5.0 CERTIFICATIONS

Personnel, equipment, and transducer certifications were maintained as required by code and procedures. This section identifies the personnel and equipment utilized in the performance of inservice examinations during Cycle 15 operations and 1R15. Certification records for personnel and equipment are kept on site and are available for review.

5.1 Personnel

Nondestructive Examination (NDE) personnel were qualified and certified to perform specific non-destructive examinations in accordance with PNPP or approved vendor procedures as verified by PNPP personnel and the Authorized Nuclear Inservice Inspector.

The following is a listing of personnel responsible for the performance of the NDE activities related to ISI during Cycle 15 operations and 1R15:

ISI NDE PERSONNEL

Name	UT	PT	MT	VT
Anderson, Michael	II			
Ashley, Jeff				III++
Ayayev, Ali				II++
Bachman, Ryan				II+
Bares, Jeffrey		I	II	II+
Barrett, Charles	II			
Barrett, Jennifer				II+
Barrier, James				II++
Blalock, Roy				II+
Boortz, Charles				III++
Boots, Jamie		IIL	IIL	
Buck, George				III
Burton, Chad	II			
Catherwood, Jason				II++
Cave, Peter		IIL	IIL	II
Cawley, Eugene	II			
Chopplin, Donnie		II		
Culler, Donald				II+
Davis, Joel				II++
Davis, Philip	II**	II	II	II
Drews, Mike				II++
Dulong, Billy				II++
Duron, Robert		IIL	IIL	II
Erbacher, Lester				II
Franklin, Sean				II+
Fuller, Richard Jr.	III**	III	III	III
Gorski, Stan				II+
Guerinot, Gregory				II+
Harris, Michael				II++
Healey, Robert	III**	III	III	III
Heath, Jacob				II+
Heimberger, Michael		IIL		II
Hilbish, Walter				II+
Hiltz, Bernard				II+
Holasek, Wade	III**			
Holloway, Gary				II++
Holloway, Mark				II++
Holz, Charles				II+
Horn, John				II++
Hubbard, Matt		II	II	II
Jablonski, James				II++
Jenniges, Mike	II			
Kanney, Brian				II+
Kazem, Nabil				III++
Kerr, Alan		II		
Kirby, Dakota	II			
Knopsnider, David				II+
Kostner, Tobias		II	II	II
Krueger, Mike	II			
Lenardson, Patrick				II++
Lieb, Daniel				II+
Liendo, Luis	II			
Mangle, James				II+
Mauk, Chad				II++
McAteer, Timothy	II			
McClure, Matthew	IIL*			II+
Messenger, John		IIL		II
Michaels, Clint				III++
Miranda, Jeffrey				II+

ISI NDE PERSONNEL (Continued)

Name	UT	PT	MT	VT
Moreau, Andre	III**			
Moreua, Derrick	II			
Morris, Max				II++
Munson, Dewey	III			
Musgrove, Floyd				II+++
Myers, Gary	II			
Neder, Walter				II++
Ogrinc, Matthew				II+
Olderman, David				II+
Ott, William		IIL		II
Overly, Eric	II			
Pace, John	IIL*			II
Parker, James	IIL*	II	II	II
Patch, Michael				III++
Patterson, John				II+
Phelps, Antoinette				II+
Phillips, Donald				II+++
Pikus, Raymond				II+
Preisinger, Jon Paul				II+
Pristov, Judith	IIL*			II+
Quick, Nathan				II+
Rasmussen, Eric				II+
Rocker, Erica				II+
Roth, Scott				II+
Sayovitz, Steve				II+
Schroeder, Dan				III++
Selz, Matthew				II++
Shamblin, Philip		II	II	II
Shaw, Clayton	II			
Shearer, Levi				II+
Sippel, Bruce				II+++
Smith, Jessica				II++
Smith, Kenneth	III**			
Smith, Wayne				II++
Stellakis, Josh	II			
Stone, Lee	IIL*	II	IIL	
Striddle, Lisa				II++
Trout, Keith				II++
Truxall, Justin				II+
Tyer, Dean				II++
Wagner, Lynn	IIL*	II	II	II
Wert, Kimberly	II			II
Williams, Stephen	II**	IIL		II
Wirtz, Charles				III
Zaharewicz, Kurt				II+

- + - Limited to VT-2 only
- ++ - Limited to in-vessel (IVVI) VT-1 and VT-3 examinations only
- +++ - Limited to VT-3 only
- * - Limited to ultrasonic thickness measuring only
- ** - PDI qualified personnel

5.2 Equipment and Materials

The equipment and materials used during the performance of the non-destructive examinations were certified and/or calibrated in accordance with site procedures or approved vendor procedures and verified by the Site NDE Level III and the Authorized Nuclear Inservice Inspector.

The following is a listing of NDE equipment and materials used for the performance of the NDE work activities related to ISI during Cycle 15 operations and 1R15:

Thermometers		
Manufacturer	Model No.	Serial Number
Omega	450	0L70M0019J
Omega	450	0L70M0019K
Omega	450	0L80Z0103B
Omega	450	0L80Z0103F
Raytek	MT6	30015741
Raytek	MT6	30015742
Fluke	51 II Pyrometer	91680081
Fluke	51 II Pyrometer	PYTTI0012
Fluke	51 II Pyrometer	PYTTI0015
Fluke	51 II Pyrometer	PYTTI0018
Fluke	51 II Pyrometer	PYTTI0025
Fluke	51 II Pyrometer	PYTTI0027
Fluke	51 II Pyrometer	PYTTI0028
Fluke	51 II Pyrometer	PYTTI0029
Fluke	51 II Pyrometer	PYTTI0030
Fluke	51 II Pyrometer	PYTTI0031
Fluke	51 II Pyrometer	PYTTI0037
Fluke	51 II Pyrometer	PYTTI0042
Fluke	51 II Pyrometer	PYTTI0045
PTC	312FLP	284255
PTC	312FLP	284246
PTC	312FLP	284123
PTC	312FLP	284277

Magnetic Particle Equipment		
Manufacturer	Model No.	Serial Number
Parker	B-300	101513
Parker	B-300	101949
WesDyne	10 lbs. Lift Block	102155

Magnetic Particle Materials		
Manufacturer	Type	Batch No.
Magnaflux	#2 Yellow Powder	11K045

Light Meter		
Manufacturer	Type	Serial Number
Extech	Model 401027	Q769244

Ultrasonic Couplant		
Manufacturer	Type	Batch No.
Sonotech	Ultragel II	06225

Liquid Penetrant Cleaner		
Manufacturer	Type	Batch No.
Magnaflux	Spotcheck SKC-S	10K01K
Magnaflux	Spotcheck SKC-S	10M07K
Magnaflux	Spotcheck SKC-S	12H07K
Magnaflux	Spotcheck SKC-S	12J01K
Magnaflux	Spotcheck SKC-S	13A01K

Liquid Penetrant Developer		
Manufacturer	Type	Batch No.
Magnaflux	Spotcheck SKD-S2	11A22K
Magnaflux	Spotcheck SKD-S2	12C19K
Magnaflux	Spotcheck SKD-S2	12F15K
Magnaflux	Spotcheck SKD-S2	12H05K
Magnaflux	Spotcheck SKD-S2	12K01K
Magnaflux	Spotcheck SKD-S2	12L14K

Liquid Penetrant		
Manufacturer	Type	Batch No.
Magnaflux	Spotcheck SKL-SP1	09L09K
Magnaflux	Spotcheck SKL-SP1	10L13K
Magnaflux	Spotcheck SKL-SP2	11A19K
Magnaflux	Spotcheck SKL-SP2	12L04K

Ultrasonic Flaw Detectors		
Manufacturer	Model	Serial No.
GEIT	USN 60 SW	30010332
GEIT	USN 60 SW	30010333
GEIT	USN 60 SW	105211
GEIT	USN 60 SW	106856
Krautkramer	USN 58L SW	106947
WesDyne	AMDATA I/UX NT	103369

Ultrasonic Transducers						
Manufacturer	Serial Number	Type	Size	Frequency (MHz)	Mode	Angle (Degrees)
Olympus	N2651	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A
Olympus	N2715	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A
Olympus	K1072	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A
Olympus	N2652	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A
Olympus	N2709	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A

Ultrasonic Transducers (continued)						
Manufacturer	Serial Number	Type	Size	Frequency (MHz)	Mode	Angle (Degrees)
Olympus	K1016	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A
Olympus	K1021	PA Transducer	64 (24x15 mm)	2.25 MHz	N/A	N/A
GEIT	SE2104	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
GEIT	SE2109	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
GEIT	SE2123	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
RTD	03-585	Transducer	2 (10X18 mm)	1.0 MHz	Longitudinal	45
RTD	04-1018	Transducer	2 (10X18 mm)	1.0 MHz	Longitudinal	45
RTD	05-243	Transducer	2 (8X14 mm)	2.0 MHz	Longitudinal	60
RTD	05-244	Transducer	2 (8X14 mm)	2.0 MHz	Longitudinal	60
RTD	05-245	Transducer	2 (8X14 mm)	4.0 MHz	Longitudinal	60
RTD	05-246	Transducer	2 (10X18 mm)	2.0 MHz	Longitudinal	60
RTD	05-247	Transducer	2 (15X25 mm)	2.0 MHz	Longitudinal	60
RTD	05-248	Transducer	2 (8X14 mm)	2.0 MHz	Longitudinal	45
RTD	05-249	Transducer	2 (8X14 mm)	2.0 MHz	Longitudinal	45
RTD	05-250	Transducer	2 (8X14 mm)	4.0 MHz	Longitudinal	45
RTD	05-251	Transducer	2 (15X25 mm)	2.0 MHz	Longitudinal	45
RTD	06-872	Transducer	2 (10X18 mm)	2.0 MHz	Longitudinal	45
RTD	06-873	Transducer	2 (10X18 mm)	2.0 MHz	Longitudinal	45
RTD	06-1468	Transducer	2 (24X42mm)	2.0 MHz	Longitudinal	60
RTD	06-1469	Transducer	2 (24X42 mm)	2.0 MHz	Longitudinal	60
RTD	06-1470	Transducer	2 (24X42 mm)	2.0 MHz	Longitudinal	60
Olympus	619019	Transducer	0.5" Dia.	10.0 MHz	Longitudinal	0
KBA	759	Transducer	0.500" Dia.	1.5 MHz	Shear	N/A
KBA	18511	Transducer	0.375" Dia.	1.5 MHz	Shear	N/A
KBA	26050	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
Panametrics	39795	Transducer	0.500" X 1.00"	1.0 MHz	Shear	N/A
Panametrics	39796	Transducer	0.500" X 1.00"	1.0 MHz	Shear	N/A
Panametrics	40646	Transducer	0.750" Dia.	1.0 MHz	Longitudinal	N/A
KBA	44215	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
KBA	45027	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
Panametrics	53837	Transducer	0.500" Dia.	1.0 MHz	Longitudinal	N/A
Panametrics	66257	Transducer	0.500" X 1.00"	1.0 MHz	Shear	N/A
KBA	75201	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
Panametrics	132764	Transducer	0.500" X 1.00"	5.0 MHz	Shear	N/A
Panametrics	135479	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	00M5JH	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
KBA	00YDNY	Transducer	0.250" Dia.	5.0 MHz	Shear	N/A
KBA	00YDP2	Transducer	0.250" Dia.	5.0 MHz	Shear	N/A
KBA	00YDP3	Transducer	0.250" Dia.	5.0 MHz	Shear	N/A
KBA	00YDP5	Transducer	0.250" Dia.	5.0 MHz	Shear	N/A
KBA	00YDP6	Transducer	0.250" Dia.	5.0 MHz	Shear	N/A
KBA	00YMCV	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
KBA	00YMCX	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A

Ultrasonic Transducers (continued)						
Manufacturer	Serial Number	Type	Size	Frequency (MHz)	Mode	Angle (Degrees)
KBA	00YMFN	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	00YMFP	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	00YMER	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	00YMKN	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	01576X	Transducer	0.375" Dia.	2.25 MHz	Shear	N/A
KBA	A17916	Transducer	0.750" Dia.	2.25 MHz	Longitudinal	N/A
KBA	B25217	Transducer	0.500" Dia.	1.5 MHz	Shear	N/A
KBA	L07450	Transducer	0.500" Dia.	10.0 MHz	Longitudinal	N/A
Panametrics	P58026	Transducer	1.0" Dia.	1.0 MHz	Longitudinal	N/A
KBA	01XNW8	Transducer	0.500" Dia.	1.5 MHz	Longitudinal	N/A
KBA	008NXR	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	11560	Transducer	0.375" Dia.	2.25 MHz	Shear	N/A
KBA	18545	Transducer	0.375" Dia.	1.5 MHz	Shear	N/A
KBA	24382	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
KBA	31277	Transducer	0.375" Dia.	2.25 MHz	Shear	N/A
KBA	44216	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
Panametrics	56755	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
Panametrics	56763	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
Panametrics	58946	Transducer	0.500" X 1.00"	1.0 MHz	Shear	N/A
Panametrics	58948	Transducer	0.500" X 1.00"	1.0 MHz	Shear	N/A
KBA	61785	Transducer	0.250" Dia.	5.0 MHz	Shear	N/A
Panametrics	66256	Transducer	0.500" X 1.00"	1.0 MHz	Shear	N/A
KBA	75199	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	80009	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	83355	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	008NXT	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	008NXV	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	008NXW	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	0096VP	Transducer	0.375" Dia.	1.5 MHz	Shear	N/A
KBA	009P5P	Transducer	0.375" Dia.	2.25 MHz	Shear	N/A
KBA	00HDCT	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
KBA	00JF16	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	00JF18	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	00W08W	Transducer	0.500" Dia.	10.0 MHz	Longitudinal	N/A
KBA	00X09C	Transducer	0.375" Dia.	1.5 MHz	Shear	N/A
KBA	00YD06	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
KBA	00YF96	Transducer	0.375" Dia.	2.25 MHz	Shear	N/A
KBA	00YHV0	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
KBA	00YJ1F	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	00YJ1H	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	00YJ7K	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	00YJ7L	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	00YJ7M	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A
KBA	00YJ7N	Transducer	0.500" Dia.	5.0 MHz	Shear	N/A

Ultrasonic Transducers (continued)						
Manufacturer	Serial Number	Type	Size	Frequency (MHz)	Mode	Angle (Degrees)
KBA	00YJYV	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
KBA	00YMKM	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	00YMKP	Transducer	0.375" Dia.	5.0 MHz	Shear	N/A
KBA	011FBY	Transducer	0.375" Dia.	1.5 MHz	Shear	N/A
KBA	014X66	Transducer	0.500" Dia.	10.0 MHz	Longitudinal	N/A
KBA	015PTJ	Transducer	0.250" Dia.	5.0 MHz	Longitudinal	N/A
KBA	0168FL	Transducer	0.250" Dia.	2.25 MHz	Longitudinal	N/A
KBA	0168FM	Transducer	0.250" Dia.	2.25 MHz	Longitudinal	N/A
KBA	016BW0	Transducer	0.250" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BVTY	Transducer	0.500" Dia.	1.5 MHz	Shear	N/A
KBA	01BXV7	Transducer	0.500" X 1.00"	2.25 MHz	Shear	N/A
KBA	01BXV8	Transducer	0.500" X 1.00"	2.25 MHz	Shear	N/A
KBA	01BXV9	Transducer	0.500" X 1.00"	2.25 MHz	Shear	N/A
KBA	01BXVB	Transducer	0.500" X 1.00"	2.25 MHz	Shear	N/A
KBA	01BXVC	Transducer	0.500" X 1.00"	2.25 MHz	Shear	N/A
KBA	01BXVF	Transducer	0.500" X 1.00"	2.25 MHz	Shear	N/A
KBA	01BXX0	Transducer	0.500" Dia.	10.0 MHz	Longitudinal	N/A
KBA	01BXX2	Transducer	0.500" Dia.	1.5 MHz	Shear	N/A
KBA	01BXX3	Transducer	0.500" Dia.	1.5 MHz	Shear	N/A
KBA	01BXX6	Transducer	0.375" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BXXB	Transducer	0.375" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BXXC	Transducer	0.375" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BXY2	Transducer	0.500" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BXY3	Transducer	0.500" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BXY4	Transducer	0.500" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01BYFK	Transducer	0.250" Dia.	1.5 MHz	Shear	N/A
KBA	01BYFM	Transducer	0.250" Dia.	1.5 MHz	Shear	N/A
KBA	01BYFP	Transducer	0.250" Dia.	1.5 MHz	Shear	N/A
KBA	01BYT1	Transducer	0.375" Dia.	5.0 MHz	Longitudinal	N/A
KBA	01BYT2	Transducer	0.375" Dia.	5.0 MHz	Longitudinal	N/A
KBA	01BYT3	Transducer	0.375" Dia.	5.0 MHz	Longitudinal	N/A
KBA	01C0X1	Transducer	1.0" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01C0X2	Transducer	1.0" Dia.	2.25 MHz	Longitudinal	N/A
KBA	01W5C0	Transducer	0.500" Dia.	2.25 MHz	Shear	N/A
KBA	54762-16147	Transducer	3.5x10 MM	4.0MHZ	Longitudinal	N/A
KBA	57463-50024	Transducer	3.5x10 MM	4.0MHZ	Longitudinal	N/A
KBA	H12393	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	H12394	Transducer	1.0" Dia.	2.25 MHz	Shear	N/A
KBA	SB0599	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
KBA	SB0756	Transducer	0.250" Dia.	2.25 MHz	Shear	N/A
RTD	09-1698	Transducer	24MM X42MM	2.0 MHz	Longitudinal	60
KBA	00TD6C	Transducer	0.375" Dia.	2.25 MHz	Shear	N/A
KBA	5456113734	Transducer	3.5x10 MM	2.0 MHZ	Longitudinal	N/A

Ultrasonic Transducers (continued)						
Manufacturer	Serial Number	Type	Size	Frequency (MHz)	Mode	Angle (Degrees)
KBA	01XNW8	Transducer	0.500" Dia.	5.0 MHz	Longitudinal	N/A

6.0 CALIBRATION STANDARDS

Ultrasonic calibration standards used for ISI related work activities during Cycle 15 operations and 1R15 are as listed below:

Ultrasonic Calibration Standard Identification Numbers	
PYNSB0014	103462
PYNSB0015	103464
PY-16-CLAD-SS	103468
PY-124-1-RPV	103470
PY-127-1-RPV	104877
PY-128-1-RPV	104878
PY-STUD-MS-2.25-CS-1	104880
PY-12-PEN-CS-2	104882
102155	106960
102252	ADM-EQP-UT-BLK-0043
102260	ADM-EQP-UT-BLK-0041
102268	ADM-EQP-UT-BLK-0040
102363	ADM-EQP-UT-BLK-0037
102432	ADM-EQP-UT-BLK-0038
102465	ADM-EQP-UT-BLK-0015
102470	

7.0 PROCEDURES

The examination procedures and inspection plans used during Cycle 15 operations and 1R15 were as follows:

Perry NDE Procedures:

PROCEDURE #	Rev.	TITLE
NQI-0941	19 & 20	Liquid Penetrant Examination
NQI-0942	19	Magnetic Particle Examination
NQI-0944	13	Ultrasonic Examination for Weld Profiling
NQI-0952	10	Radiographic Operations and Examinations
NQI-0958	1	Procedure For Ultrasonic Examination of Flued Head Attachment Welds
NQI-0959	0	Procedure For Ultrasonic Examination of The Reactor Vessel Flange Area
NQI-0962	0	Appendix VIII Qualified Equipment Tables for FENOC Appendix VIII Procedures
NQI-0964	1	Appendix VIII Procedure For Ultrasonic Examination of Reactor Pressure Vessel Welds
NQI-0966	1	Fluorescent Penetrant Examination
NQI-1042	16 & 17	Visual Examination
NOP-CC-5761	0	Ultrasonic Instrument Linearity
NOP-CC-5762	0	Appendix VIII Procedure For the Examination of Ferritic Pipe Welds
NOP-CC-5763	0	Appendix VIII Procedure For the Examination of Austenitic Pipe Welds
NOP-CC-5764	0	Appendix VIII Procedure For the Straight Beam Examination of Bolting

Vendor NDE Procedures:

Procedure #	DOCUMENT TITLE	DDR/NOTES
WesDyne Written Practice for Qualification of NDE Personnel:		
WDP 2.10 Rev 5	Certification and Certification of Personnel in Nondestructive Examination	N/A
WesDyne Procedures for ISI Examinations:		
WDI-STD-1143 Rev 0	Procedure Supplement to PDI-UT-10 for the Manual Ultrasonic Examination of Welds with Corrosion Resistant Cladding (CRC) Material Applied	N/A
WDI-STD-1006 Rev 1	Generic Procedure for the Ultrasonic Examination of Dissimilar Metal Welds in Accordance with PDI-UT-10	N/A
WDI-STD-1015 Rev 4	Generic Automated Procedure for OD RPV Shell Weld Examinations	N/A

Procedure #	DOCUMENT TITLE	DDR/NOTES
WDI-SSP-1275 Rev 0	Procedure for Ultrasonic Examination of BWR Core Shroud H9 Weld Using the IntraSpect System at Perry Nuclear Plant	N/A
Westinghouse Written Practice for Qualification of NDE Personnel:		
WEC 2.10 Rev 3	Qualification, Training and Certification of Nondestructive Testing Personnel	N/A
WEC 2.10.1 Rev. 1	WEC 2.10 Addendum A: Certification of NDE Personnel in Accordance with ASME Section XI, 1992 Edition, 1992 Addendum	N/A
Westinghouse Procedure for IVVI & BWRVIP Required Exams		
PRO-ISI-IVVI-0001-GPRY1 Rev. 1	Procedure for Invesel Visual Inspection (IVVI) of the Perry BWR 6 RPV Internals	N/A
DYN-0071 dated 12/2014	Annual Dynaray Assessment and Linearity	N/A
PRO-ISI-UT-0009 Rev 2	BWR NDE Procedure for the Automated Ultrasonic Examination of the Core Shroud Cylinder Welds	N/A
PRO-ISI-UT-0015 Rev 1	BWR NDE Procedure for the Automated Ultrasonic Data Analysis of the Core Shroud	N/A
PRO-ISI-UT-0016 Rev 2	BWR NDE Procedure for Performing Linearity Checks on Digitized Ultrasonic Instruments	N/A
PRO-ISI-UT-0019 Rev 1	BWR NDE Procedure for the Automated Ultrasonic Examination of the BWR/6 Core Shroud Head Flange to Shroud Cylinder Weld (H3)	N/A
Sonic Systems International (SSI) Written Practice for Qualification of NDE Personnel:		
SSI-A-005 Rev. 27	Qualification and Certification of Nondestructive Examination and Testing Personnel	ICN 1
SSI-A-004-F1 Rev 1	Interim Change Notice IN-01 for SSI-A-005 Rev. 27	N/A
NTS Written Practice for Qualification of NDE Personnel:		
HSV QAP 02-6 Rev 0	Certification of Visual Examination Personnel	N/A
IQC Written Practice for Qualification of NDE Personnel:		
IQC 560 Rev 10	Written Practice for Qualification and Certification of NDE Personnel Per ASME Section XI and ANSI/ASNT CP-189 Requirements	N/A
Iddeal Concepts, Inc. Written Practice for Qualification of NDE Personnel:		
WAM-NDE-002 Rev 4	Qualification and Certification of Nondestructive Examination Personnel	N/A
System One Written Practice for Qualification of NDE Personnel:		
Procedure Number 9.1 Rev 20	Qualification and Certification of NDE Personnel	N/A
Procedure Number 9.2 Rev 11	Qualification and Certification of Visual Examination Personnel for ASME Section XI Applications	N/A
Procedure Number 9.5 Rev 117	NDT Personnel Certification and Qualification Procedure for ANSI/ASNT CP-189 Compliance	N/A

8.0 RELIEF REQUESTS

Where it has been determined that conformance with any other examination requirements of ASME Section XI is impractical, PNPP has requested relief from the examination requirements.

The following listing summarizes all the relief requests that have been submitted and approved for PNPP's third 10-year inspection interval:

RR NO/REV	SYSTEM	TYPE RELIEF	CATEG	ITEM NO
IR-009 R-2	Reactor Pressure Vessel	Partial Exams	B-O	B14.10
IR-013 R-2	High Pressure Core Spray Low Pressure Core Spray Residual Heat Removal	No Exams	C-G	C6.10
IR-027 R-2	Standby & HPCS Diesel Fuel Oil	Alternative Exams	D-A	D1.10
IR-043 R-2	Reactor Water Cleanup Residual Heat Removal Reactor Core Isolation Cooling High Pressure Core Spray Low Pressure Core Spray	No Exams	B-M-1	B12.30 B12.40
IR-049 R-1	Class 1 Piping	Alternate Examination Population, Class 1 Risk- Informed application	B-F B-J	B5.10 B5.20 B5.30 B9.11 B9.21 B9.31 B9.32 B9.40
IR-054 R-1	Class 1 Piping	Alternate Examination Population	B-D	B3.90 B3.100
IR-056 R-1	Reactor Vessel	Alternate Examination	B-N-1 B-N-2	B13.10 B13.40
IR-058 R-0	Reactor Vessel	Impracticality	F-A	F1.40
PT-001 R-2	Various non-isolable (from the RPV Boundary) Class 2 Components	Alternate System and Inservice Tests	C-H	C7.10

9.0 SCHEDULE CHANGES

Scheduling changes were made during 1R15 to facilitate the examinations, or to account for unforeseen physical or schedule interferences, or radiological conditions. These changes differ from the schedule in Revision 17 of PNPP's Inservice Examination Program (ISEP).

The changes, which will be incorporated in the next revision to the ISEP, are as follows:

MARK NO.	DESCRIPTION AND REASON FOR CHANGE
1E12-0873	Weld 1E12-0873 is a Class 1, Category R-A, Item R2.ND weld. This weld is inaccessible due to hanger 1E12-H0643 covering the weld. Calculated coverage would only be 80-85%, less than the Code required 90% minimum. This weld was replaced with weld 1E12-0880 which has the same risk ranking as 1E12-0873.
1B13-30/03-FW	Weld 1B13-30/03-FW is a Class 1, Category B-O, Item B14.10 weld. 90% of this weld was not accessible due to interferences from cabling undervessel. In lieu of this, weld 1B13-26/03-FW (CRD adjacent to 30/03) was selected.
1B13-BA 1B13-BN 1B13-BP 1B13-BR	Welds 1B13-BA, 1B13-BN, 1B13-BP and 1B13-BR are Class 1, Category B-A, Item B1.12 welds scheduled for examination in 1R15 utilizing automated ultrasonic methods. ASME Section XI requires 90% of the exam volume be covered for an exam to be acceptable. Contrary to this requirement, less than 90% exam coverage was achieved for these four welds. 1B13-BA did not receive full coverage due to interferences from nozzles 1B13-N1B and 1B13-N2A. Welds 1B13-BN, 1B13-BP and 1B13-BR are the welds in the fourth (upper) shell course. Full coverage of these welds could not be achieved due to the configuration of the mirror insulation which was left in place. Manual pick-ups to achieve at least 90% coverage has been scheduled for later outages to coincide with nozzle exams being performed in the same area to reduce radiological exposure.

10.0 EXAMINATION SUMMARY RESULTS

1R15 was the third refueling outage of Perry's third 10-Year Inservice Inspection Interval and the first of two outages in the second inspection period. Not including pressure testing VT-2 exams that are completed every period, Cycle 15 and RFO15 account for approximately half of the ASME Section XI Code required minimum exams to be completed by the end of the second period, or 1R15.

Cycle 15 and 1R15 examinations resulted in a complete and acceptable program in that all indications were evaluated for acceptance in accordance with ASME Section XI, IWA-3000, and all corrective measures or evaluations were completed.

Appendix "A" is a computer-generated summary of the Cycle 15 and 1R15 examination results. Component identifications (Mark Nos.) and order of appearance may differ slightly from that listed in Revision 17 of PNPP's Inservice Examination Program. The differences are to accommodate the database software program. Original examination data reports are on file and available for review at the site.

11.0 NIS-2/NR-1

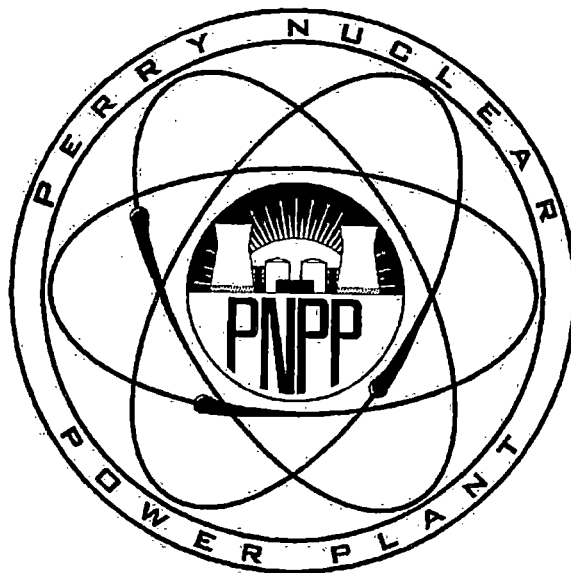
Repairs, replacements and modifications are carried out in accordance with PNPP's Nuclear Repair & Repair (non-nuclear) Manual, which meets regulatory requirements and quality standards. Compliance of the work is delineated on NIS-2/NR-1 forms. Copies of the NIS-2/NR-1 forms are contained in Appendix "B" and the corresponding starting page numbers are provided in the table below.

The following is a listing of NIS-2/NR-1 forms applicable to this report (Class 1 and 2 only) which have been completed since PNPP's last summary report:

NR-1/NIS-2 FORMS				
RRP NO.	FLOC/MPL NO.	DESCRIPTION/COMMENTS	CLASS	PAGE
Reactor and Internals (1B13) System Cycle 15 & 1R15 Reports:				
1B13-058	1B13-D0001	Replaced 2 LPRM dry tubes and 4 SRM dry tubes	1	71
1B13-059	1B13-D0008	Replaced 20 Control Rod Drive Mechanisms (CRDM) and replaced 1" cap screws (8 each per drive)	1	81
Nuclear Boiler (1B21) System Cycle 15 & 1R15 Reports:				
1B21-462	1B21-H0471	Replaced Type 30 Snubber	1	135
1B21-463	1B21-H0449	Replaced Type 30 Snubber	1	137
1B21-464	1B21-H0450	Replaced Snubber	1	139
1B21-465	1B21-H0445	Replace Type 30 Snubber	1	141
1B21-466	1B21-G7085	Replace 70 KIP Snubber	1	143
1B21-467	1B21-G7074	Replace 70 KIP Snubber	1	145
1B21-469	1B21-H0453	Replaced Lisega snubber	1	147
1B21-470	1B21-F0032A	Reinstall test port plug	1	149
1B21-471	1B21-F0032B	Reinstall test port plug	1	151
1B21-472	1B21-F0051C	Replaced safety relief valve	1	153
1B21-473	1B21-F0041E	Replaced safety relief valve	1	157
1B21-474	1B21-F0047C	Replaced safety relief valve	1	161
1B21-475	1B21-F0047F	Replaced safety relief valve	1	165
1B21-476	1B21-F0041A	Replaced safety relief valve	1	170
1B21-477	1B21-F0051A	Replaced safety relief valve	1	175
1B21-478	1B21-F0041B	Replaced safety relief valve	1	180
1B21-479	1B21-F0041C	Replaced safety relief valve	1	185
1B21-480	1B21-F0022C 1B21-F0462	Replaced male and female air fittings on MSIV air pack	2	190
1B21-481	1B21-F0028A	Replaced female fitting on MSIV air pack	2	192
Reactor Recirculation (1B33) System Cycle 15 & 1R15 Reports:				
1B33-138	1B33-F0029 1B33-F0030	Replaced drain valves and associated piping	1	194
1B33-139	1B33-C0001A	Replaced seal cartridge assembly	1	200
1B33-140	1B33-C0001A	Replaced reactor coolant pump seal cartridge	1	204
Standby Liquid Control (1C41) System Cycle 15 & 1R15 Reports:				
1C41-043	1C41-F0004B	Replaced primer/trigger assembly	1	208

RRP NO.	FLOC/MPL NO.	DESCRIPTION/COMMENTS	CLASS	PAGE
Residual Heat Removal (1E12) System Cycle 15 & 1R15 Reports:				
1E12-332	1E12-H0322	Replace PSA-10 Snubber	2	215
1E12-333	1E12-F0055B	Replace relief valve	2	217
1E12-334	1E12-F0063A	Replaced 8" check valve	2	221
1E12-335	1E12-F0063B	Replaced 8" check valve	2	225
1E12-336	1E12-F0063C	Replaced 8" check valve	2	229
1E12-337	1E12-F0086	Replaced 6" check valve	2	233
1E12-338	1E12-F0605B	Replaced bolting hardware	2	237
1E12-339	1E12-F0041C	Replaced disc	1	239
1E12-340	1E12-F0041B	Replaced disc	1	243
Low Pressure Core Spray (1E21) System Cycle 15 & 1R15 Reports:				
1E21-049	1E21-C0002	Replaced water leg pump	2	247
High Pressure Core Spray (1E22) System Cycle 15 & 1R15 Reports:				
1E22-082	1E22-H0002	Replace 50 KIP Snubber	1	251
1E22-083	1E22-H0001	Replace 50 KIP Snubber	1	253
Reactor Core Isolation Cooling (1E51) System Cycle 15 & 1R15 Reports:				
1E51-161	1E51-H0074	Replace Type 30 Snubber	1	255
1E51-162	1E51-D0001 1E51-D0002	Replaced rupture discs	2	257
1E51-163	1E51-F0066	Replaced valve disc/piston assembly	1	259
1E51-164	1E51-F0585	Installed new valve and piping for FLEX	2	263
1E51-165	1E51 piping	Replaced head spray bolting	1	267
1E51-166	1E51 piping	Replaced head spray bolting	1	269
Reactor Water Clean Up (1G33) System Cycle 15 & 1R15 Reports:				
1G33-179	1G33-F0101 1G33-f0103	Replaced vessel bottom head drain valves and piping	1	271
1G33-180	1G33-H1007 1G33-H1008 1G33-H0205	Modified hangers	1	277
Main, Reheat, and Miscellaneous Drains (1N22) System Cycle 15 & 1R15 Reports:				
1N22-076	1N22-H0126	Replaced PSA-1/2 Snubber	1	281
1N22-077	1N22-H0127	Replaced PSA-1 Snubber	1	283
Feedwater (1N27) System Cycle 15 & 1R15 Reports:				
1N27-061	1N27-H0006	Replace 70 KIP Snubber	1	285
1N27-062	1N27-H0007	Replace 70 KIP Snubber	1	287
1N27-063	1N27-F0559B	Re-installation of existing test port plug	1	289
1N27-064	1N27-F0559A	Re-installation of existing test port plug	1	291
Condensate Transfer and Storage (1P11) System Cycle 15 & 1R15 Reports:				
1P11-012	1P11-F0545	Replaced 12" check valve	2	293
No MPL (NMPL) Cycle 15 & 1R15 Reports:				
NMPL-045	N/A	Spare valve rebuild	2	297
NMPL-046	N/A	Spare valve rebuild	2	299
NMPL-047	N/A	Spare valve rebuild	2	301


APPENDIX A
"CYCLE 15 & 1R15 EXAMINATION RESULTS SUMMARY"
INSERVICE INSPECTION SUMMARY REPORT
FOR
PERRY NUCLEAR POWER PLANT
(PNPP)
UNIT 1

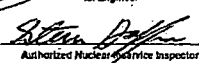


First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P1059-0015
Third Interval, Second Period, First Outage (1R15)
Cycle 15 and 1R15 Inservice Examinations

Prepared by:  Date: 6/10/15
ISI Engineer

Reviewed by:  Date: 6/23/15
Authorized Nuclear Inservice Inspector

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.	ASME Category				
0P49-D003A-SP ANCHOR, SCREEN WASH STRAINER (WA) N/A N/A 305-214-101	F-A F1.40		VT VT-3	1042-15-056	SAT	
0P49-D003A-WA INTEGRAL ATTACHMENT SCREEN WASH STRAINER ANCHOR N/A N/A 305-214-101	D-A D1.10		VT VT-1	1042-15-055	SAT	
1B13-26/03-FW CRD HOUSING TO FLANGE WELD 6" N/A 305-006-110	B-O B14.10		PT PT	0941-15A-027	ACC	
1B13-26/59-HW CRD HOUSING TO HOUSING WELD 6" N/A 305-006-110	B-O B14.10		PT PT	0941-15A-023	ACC	
1B13-BA NO. 1 SHELL RING LONG SEAM @ 17 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-008	SAT	82.3% Coverage.
1B13-BB NO. 1 SHELL RING LONG SEAM @ 137 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-012	SAT	95.8%
1B13-BC NO. 1 SHELL RING LONG SEAM @ 257 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-003	SAT	96.5% Coverage.
1B13-BD NO. 2 SHELL RING LONG SEAM @ 40 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-007	SAT	100.0% Coverage
1B13-BE NO. 2 SHELL RING LONG SEAM @ 160 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-010	SAT	100.0%
1B13-BF NO. 2 SHELL RING LONG SEAM @ 280 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-004	SAT	100.0% Coverage.
1B13-BG NO. 3 SHELL RING LONG SEAM @ 79 AZ N/A N/A 305-006-102	B-A B1.12		UT A-UT	1Q800-15-009	SAT	100.0% Coverage

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	ASME Item No.					
1B13-BJ NO. 3 SHELL RING LONG SEAM @ 199 AZ N/A N/A 305-006-102	B-A B1.12		UT	1Q800-15-014	SAT	95.80%
			A-UT			
1B13-BK NO. 3 SHELL RING LONG SEAM @ 319 AZ N/A N/A 305-006-102	B-A B1.12		UT	1Q800-15-006	SAT	98.9% Coverage.
			A-UT			
1B13-BN NO. 4 SHELL RING LONG SEAM @ 48 AZ N/A N/A 305-006-102	B-A B1.12		UT	1Q800-15-011	SAT	79.3% Coverage
			A-UT			
1B13-BP NO. 4 SHELL RING LONG SEAM @ 168 AZ N/A N/A 305-006-102	B-A B1.12		UT	1Q800-15-013	SAT	78.2%
			A-UT			
1B13-BR NO. 4 SHELL RING LONG SEAM @ 288 AZ N/A N/A 305-006-102	B-A B1.12		UT	1Q800-15-005	SAT	64% coverage.
			A-UT			
1B13-C1-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT	1042-15-098	SAT	
			VT-1			
1B13-C1-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT	1042-15-074	SAT	
			VT-1			
1B13-C2-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT	1042-15-089	SAT	
			VT-1			
1B13-C2-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT	1042-15-075	SAT	
			VT-1			
1B13-C3-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT	1042-15-100	SAT	
			VT-1			
1B13-C3-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT	1042-15-076	SAT	
			VT-1			

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	ASME Item No.					
1B13-C4-N RPV CLOSURE HEAD NUT	B-G-1 B6.10		VT	1042-15-101	SAT	
5" N/A 305-006-112			VT-1			
1B13-C4-W RPV CLOSURE HEAD WASHER	B-G-1 B6.50		VT	1042-15-077	SAT	
5" N/A 305-006-112			VT-1			
1B13-C5-N RPV CLOSURE HEAD NUT	B-G-1 B6.10		VT	1042-15-102	SAT	
5" N/A 305-006-112			VT-1			
1B13-C5-W RPV CLOSURE HEAD WASHER	B-G-1 B6.50		VT	1042-15-078	SAT	
5" N/A 305-006-112			VT-1			
1B13-C6-N RPV CLOSURE HEAD NUT	B-G-1 B6.10		VT	1042-15-103	SAT	
5" N/A 305-006-112			VT-1			
1B13-C6-W RPV CLOSURE HEAD WASHER	B-G-1 B6.50		VT	1042-15-079	SAT	
5" N/A 305-006-112			VT-1			
1B13-C7-N RPV CLOSURE HEAD NUT	B-G-1 B6.10		VT	1042-15-104	SAT	
5" N/A 305-006-112			VT-1			
1B13-C7-W RPV CLOSURE HEAD WASHER	B-G-1 B6.50		VT	1042-15-080	SAT	
5" N/A 305-006-112			VT-1			
1B13-C8-N RPV CLOSURE HEAD NUT	B-G-1 B6.10		VT	1042-15-105	SAT	
5" N/A 305-006-112			VT-1			
1B13-C8-W RPV CLOSURE HEAD WASHER	B-G-1 B6.50		VT	1042-15-081	SAT	
5" N/A 305-006-112			VT-1			
1B13-C9-N RPV CLOSURE HEAD NUT	B-G-1 B6.10		VT	1042-15-106	SAT	
5" N/A 305-006-112			VT-1			

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	ASME Item No.	ASME				
1B13-CS-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50	VT	VT-1	1042-15-082	SAT	
1B13-CG BOTTOM HEAD TO SKIRT N/A N/A 305-006-104	B-K B10.10	MT	MT	0942-15A-005	ACC	
1B13-CRDH/RPV-1-3007 CRD Housing to RPV Weld N/A N/A 305-006-111	X-A X9.50	EVT-1		VDS0187	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE CRD HOUSING TO RPV WELD FOR POSITION 30-07
1B13-CRDH/RPV-1-3015 CRD Housing to RPV Weld N/A N/A 305-006-111	X-A X9.50	EVT-1		VDS0191	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE CRD HOUSING TO RPV WELD FOR POSITION 30-15
1B13-CRDH/RPV-1-3027 CRD Housing to RPV Weld N/A N/A 305-006-111	X-A X9.50	EVT-1		VDS0196	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE CRD HOUSING TO RPV WELD FOR POSITION 30-27
1B13-CRDH/RPV-1-3035 CRD Housing to RPV Weld N/A N/A 305-006-111	X-A X9.50	EVT-1		VDS0192	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE CRD HOUSING TO RPV WELD FOR POSITION 30-35
1B13-CRDH/RPV-1-3411 CRD Housing to RPV Weld N/A N/A 305-006-111	X-A X9.50	EVT-1		VDS0189	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE CRD HOUSING TO RPV WELD FOR POSITION 34-11
1B13-CRDH/RPV-1-3431 CRD Housing to RPV Weld N/A N/A 305-006-111	X-A X9.50	EVT-1		VDS0194	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE CRD HOUSING TO RPV WELD FOR POSITION 34-31
1B13-CS-H4V14-ID SHROUD ID CENTRAL UPPER CYL TO CENTRAL MIDDLE CYL N/A N/A 305-006-122	X-A X5.10	EVT-1		VDS0177	NRI	EXAMINE THE AREA AROUND THE INTERSECTION OF H4 AND V14 WELDS ON THE SHROUD ID FOR CRACKING
1B13-CS-H4V14-OD SHROUD OD CENTRAL UPPER CYL TO CENTRAL MIDDLE CYL N/A N/A 305-006-122	X-A X5.10	EVT-1		VDS0176	NRI	EXAMINE THE AREA AROUND THE INTERSECTION OF H4 AND V14 WELDS ON THE SHROUD OD FOR CRACKING
1B13-CS-H9 SHROUD SUPPORT PLATE TO RX VESSEL WALL N/A N/A 305-006-121	X-A X5.20	UT	A-UT	1Q800-15-015	UNSAT	84.6%

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	ASME Item No.					
1B13-CSHP-CCW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0150	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CCW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0168	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CW-P2 HP CORE SPRAY FLOW DIVIDER REDUCER TO PIPE WELD P2 6" 305-006-113	X-A X3.11		EVT-1	VDS0076	NRI	PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18. EXAM POINT INCLUDES THE REDUCER TO PIPE (P2) WELD.
1B13-CSHP-CW-P2A HP CORE SPRAY FLOW DIVIDER TO REDUCER WELD P2a 6" 305-006-113	X-A X3.11		EVT-1	VDS0075	NRI	PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18. EXAM POINT INCLUDES THE FLOW DIVIDER TO REDUCER WELD (P2a) WELD.
1B13-CSHP-CW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0070	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CW-P3b HP CORE SPRAY HORIZONTAL PIPE TO COUPLING 6" 40 305-006-113	X-A X3.11		EVT-1	VDS0071	NRI	GROOVE WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CW-P4c HP CORE SPRAY LOWER RISER PIPE TO ELBOW 6" 40/120 305-006-113	X-A X3.11		EVT-1	VDS0079	NRI	PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CW-P4d HP CORE SPRAY ELBOW TO SHROUD FLANGE 6" 120/40 305-006-113	X-A X3.11		EVT-1	VDS0080	NRI	PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0078	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSHP-CW-P6 HP CORE SPRAY COUPLING TO LOWER RISER PIPE 6" 40 305-006-113	X-A X3.11		EVT-1	VDS0084	NRI	GROOVE WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSLP-CCW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0038	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.

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	ASME Item No.	ASME				
1B13-CSLP-CW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0099	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSLP-CW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0179	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSLP-CW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10		EVT-1	VDS0167	NRI	SOCKET WELD CONNECTION. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSLP-P1 LP CORE SPRAY THERMAL SLEEVE TO REDUCER WELD P1 10" 305-006-113	X-A X3.11		EVT-1	VDS0067	NRI	PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18. WELD IS AT AND INSIDE NOZZLE BORE, EXAMINE THE THERMAL SLEEVE TO REDUCER (P1) WELD AS BEST AS POSSIBLE WITH THE ACCESS LIMITATIONS.
1B13-CSLP-P1A LP CORE SPRAY REDUCER TO FLOW DIVIDER WELD P1A 10" 305-006-113	X-A X3.11		EVT-1	VDS0068	NRI	PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18. WELDS ARE AT AND INSIDE NOZZLE BORE, EXAMINE THE REDUCER TO TEE (P1A) WELD AS BEST AS POSSIBLE WITH THE ACCESS LIMITATIONS.
1B13-CSS-LWR173-CW-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELD 5" 305-006-115	X-A X3.20		EVT-1	VDS0175	NRI	COUNTERCLOCKWISE LOWER SPARGER WELD WITH INLET AT 173 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSS-LWR173-CW-S4 CORE SPRAY SPARGER PIPE TO END CAP WELD 5" 305-006-115	X-A X3.20		EVT-1	VDS0069	NRI	COUNTERCLOCKWISE END CAP WELD OF LOWER SPARGER WITH INLET AT 173 DEGREES, WELDED ENDCAP AT 90 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSS-LWR173-CW-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELD 5" 305-006-115	X-A X3.20		EVT-1	VDS0174	NRI	CLOCKWISE LOWER SPARGER WELD WITH INLET AT 173 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSS-LWR173-CW-S4 CORE SPRAY SPARGER PIPE TO END CAP WELD 5" 305-006-115	X-A X3.20		EVT-1	VDS0108	NRI	CLOCKWISE END CAP WELD OF LOWER SPARGER WITH INLET AT 173 DEGREES, WELDED ENDCAP AT 270 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSS-LWR173-S3ab CORE SPRAY SPARGER SPRAY NOZZLE WELDS (2 EA NOZZ) 5" 305-006-115	X-A X3.21		VT-1	VDS0172	NRI	BASELINE COMPLETED UNDER EXAM ITEM 1B13-CSS IN RF05. WELDS OF SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.
1B13-CSS-LWR173-SB@100 CORE SPRAY SPARGER BRACKET AT 100 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0117	NRI	SPARGER BRACKET LOCATED AT 100 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.

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1B13-CSS-LWR173-SB@112 CORE SPRAY SPARGER BRACKET AT 112 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0126	NRI	SPARGER BRACKET LOCATED AT 112 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@130 CORE SPRAY SPARGER BRACKET AT 130 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0118	NRI	SPARGER BRACKET LOCATED AT 130 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@149 CORE SPRAY SPARGER BRACKET AT 149 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0198	NRI	SPARGER BRACKET LOCATED AT 149 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@161 CORE SPRAY SPARGER BRACKET AT 161 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0203	NRI	SPARGER BRACKET LOCATED AT 161 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@180 CORE SPRAY SPARGER BRACKET AT 180 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0162	NRI	SPARGER BRACKET LOCATED AT 180 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@199 CORE SPRAY SPARGER BRACKET AT 199 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0149	NRI	SPARGER BRACKET LOCATED AT 199 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@229 CORE SPRAY SPARGER BRACKET AT 229 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0141	NRI	SPARGER BRACKET LOCATED AT 229 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@248 CORE SPRAY SPARGER BRACKET AT 248 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0133	NRI	SPARGER BRACKET LOCATED AT 248 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB@261 CORE SPRAY SPARGER BRACKET AT 261 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0111	NRI	SPARGER BRACKET LOCATED AT 261 DEGREES ON SPARGER WITH INLET AT 173 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-LWR173-SB-BOLT@100 CORE SPRAY SPARGER BRACKET BOLTING AT 100 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0026	NRI	Sparger brackel bolting at 100 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.	
1B13-CSS-LWR173-SB-BOLT@112 CORE SPRAY SPARGER BRACKET BOLTING AT 112 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0091	NRI	Sparger brackel bolting at 112 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.	

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	ASME Item No.	Exam Method			
1B13-CSS-LWR173-SB-BOLT@149 CORE SPRAY SPARGER BRACKET BOLTING AT 130 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0121	NRI	Sparger bracket bolting at 130 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@149 CORE SPRAY SPARGER BRACKET BOLTING AT 149 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0199	NRI	Sparger bracket bolting at 149 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@161 CORE SPRAY SPARGER BRACKET BOLTING AT 161 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0201	NRI	Sparger bracket bolting at 161 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@180 CORE SPRAY SPARGER BRACKET BOLTING AT 180 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0165	NRI	Sparger bracket bolting at 180 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@199 CORE SPRAY SPARGER BRACKET BOLTING AT 199 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0147	NRI	Sparger bracket bolting at 199 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@229 CORE SPRAY SPARGER BRACKET BOLTING AT 229 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0104	NRI	Sparger bracket bolting at 229 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@248 CORE SPRAY SPARGER BRACKET BOLTING AT 248 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0105	NRI	Sparger bracket bolting at 248 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-LWR173-SB-BOLT@261 CORE SPRAY SPARGER BRACKET BOLTING AT 261 DEGREES N/A 305-006-116	X-A X3.22	VT-1	VDS0110	NRI	Sparger bracket bolting at 261 degrees, on the outside of the shroud, for the lower sparger with inlet at 173 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-CCW-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELD 5" 305-006-115	X-A X3.20	EVT-1	VDS0170	NRI	COUNTERCLOCKWISE UPPER SPARGER WELD WITH INLET AT 187 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSS-UPR187-CCW-S4 CORE SPRAY SPARGER PIPE TO END CAP WELD 5" 305-006-115	X-A X3.20	EVT-1	VDS0072	NRI	COUNTERCLOCKWISE END CAP WELD OF UPPER SPARGER WITH INLET AT 187 DEGREES, WELDED ENDCAP AT 90 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.
1B13-CSS-UPR187-CW-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELD 5" 305-006-115	X-A X3.20	EVT-1	VDS0169	NRI	CLOCKWISE UPPER SPARGER WELD WITH INLET AT 187 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.

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1B13-CSS-UPR187-CW-S4 CORE SPRAY SPARGER PIPE TO END CAP WELD 5" 305-006-115	X-A X3.20	EVT-1	VDS0107	NRI	CLOCKWISE END CAP WELD OF LOWER SPARGER WITH INLET AT 187 DEGREES, WELDED ENDCAP AT 270 DEGREES. PERFORM CLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@100 CORE SPRAY SPARGER BRACKET AT 100 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0106	NRI	BRACKET LOCATED AT 100 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@113 CORE SPRAY SPARGER BRACKET AT 113 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0122	NRI	BRACKET LOCATED AT 113 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@132 CORE SPRAY SPARGER BRACKET AT 132 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0112	NRI	BRACKET LOCATED AT 132 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@162 CORE SPRAY SPARGER BRACKET AT 162 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0202	NRI	BRACKET LOCATED AT 162 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@180 CORE SPRAY SPARGER BRACKET AT 187 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0161	NRI	BRACKET LOCATED AT 187 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@200 CORE SPRAY SPARGER BRACKET AT 200 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0148	NRI	BRACKET LOCATED AT 200 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@212 CORE SPRAY SPARGER BRACKET AT 212 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0144	NRI	BRACKET LOCATED AT 212 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@231 CORE SPRAY SPARGER BRACKET AT 231 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0135	NRI	BRACKET LOCATED AT 231 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@249 CORE SPRAY SPARGER BRACKET AT 249 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0132	NRI	BRACKET LOCATED AT 249 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	
1B13-CSS-UPR187-SB@261 CORE SPRAY SPARGER BRACKET AT 261 DEGREES NA 305-006-116	X-A X3.22	VT-1	VDS0109	NRI	BRACKET LOCATED AT 261 DEGREES ON SPARGER WITH INLET AT 187 DEGREES. EXAMINE IAW BWRVIP-18.	

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1B13-CSS-UPR187-SB-BOLT@100 CORE SPRAY SPARGER BRACKET BOLTING AT 100 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0088	NRI	Sparger bracket bolting at 100 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@113 CORE SPRAY SPARGER BRACKET BOLTING AT 113 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0090	NRI	Sparger bracket bolting at 113 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@132 CORE SPRAY SPARGER BRACKET BOLTING AT 132 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0120	NRI	Sparger bracket bolting at 132 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@162 CORE SPRAY SPARGER BRACKET BOLTING AT 162 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0200	NRI	Sparger bracket bolting at 162 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@180 CORE SPRAY SPARGER BRACKET BOLTING AT 187 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0164	NRI	Sparger bracket bolting at 180 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@200 CORE SPRAY SPARGER BRACKET BOLTING AT 200 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0145	NRI	Sparger bracket bolting at 200 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@212 CORE SPRAY SPARGER BRACKET BOLTING AT 212 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0143	NRI	Sparger bracket bolting at 212 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@231 CORE SPRAY SPARGER BRACKET BOLTING AT 231 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0136	NRI	Sparger bracket bolting at 231 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@249 CORE SPRAY SPARGER BRACKET BOLTING AT 249 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0114	NRI	Sparger bracket bolting at 249 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-CSS-UPR187-SB-BOLT@261 CORE SPRAY SPARGER BRACKET BOLTING AT 261 DEGREES N/A 305-006-116	X-A X3.22		VT-1	VDS0113	NRI	Sparger bracket bolting at 261 degrees, on the outside of the shroud, for the upper sparger with inlet at 187 degrees. Examine IAW BWRVIP-18.
1B13-D7-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-107	SAT	

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1B13-D7-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50	VT VT-1	1042-15-083	SAT	
1B13-D8-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10	VT VT-1	1042-15-108	SAT	
1B13-D8-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50	VT VT-1	1042-15-084	SAT	
1B13-D9-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10	VT VT-1	1042-15-109	SAT	
1B13-D9-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50	VT VT-1	1042-15-085	SAT	
1B13-DK TOP HEAD MERIDIONAL WELD @ 135 AZ N/A N/A 305-006-103	B-A B1.22	UT UT	UT-15-E015 (Page	NRI	
1B13-DK TOP HEAD MERIDIONAL WELD @ 135 AZ N/A N/A 305-006-103	B-A B1.22	UT UT	UT-15-E015 (Page	NRI	Zone 2 Additional Reference Block IIW Serial Number 106960.
1B13-DP TOP HEAD MERIDIONAL WELD @ 315 AZ N/A N/A 305-006-103	B-A B1.22	UT UT	UT-15-E014 (Page	NRI	
1B13-DP TOP HEAD MERIDIONAL WELD @ 315 AZ N/A N/A 305-006-103	B-A B1.22	UT UT	UT-15-E014 (Page	NRI	Zone 2 Additional Reference Block IIW Serial Number 106960.
1B13-E1-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10	VT VT-1	1042-15-110	SAT	
1B13-E1-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50	VT VT-1	1042-15-086	SAT	

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	ASME Item No.					
1B13-E2-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-111	SAT	
1B13-E2-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-087	SAT	
1B13-E3-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-112	SAT	
1B13-E3-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-088	SAT	
1B13-E4-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-113	SAT	
1B13-E4-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-089	SAT	
1B13-E5-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-114	SAT	
1B13-E5-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-090	SAT	
1B13-E6-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-115	SAT	
1B13-E6-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-091	SAT	
1B13-E7-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-116	SAT	

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	ASME Item No.					
1B13-E7-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-092	SAT	
1B13-E8-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-117	SAT	
1B13-E8-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-093	SAT	
1B13-E9-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-118	SAT	
1B13-E9-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-094	SAT	
1B13-F1-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-119	SAT	
1B13-F1-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-095	SAT	
1B13-F2-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-120	SAT	
1B13-F2-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-096	SAT	
1B13-F3-N RPV CLOSURE HEAD NUT 5" N/A 305-006-112	B-G-1 B6.10		VT VT-1	1042-15-121	SAT	
1B13-F3-W RPV CLOSURE HEAD WASHER 5" N/A 305-006-112	B-G-1 B6.50		VT VT-1	1042-15-097	SAT	

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	ASME Item No.					
1B13-FWSBP@115 FEEDWATER SPARGER BRACKET PIN AT 115 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0047	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@125 FEEDWATER SPARGER BRACKET PIN AT 125 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0049	NRI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@175 FEEDWATER SPARGER BRACKET PIN AT 175 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0171	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@185 FEEDWATER SPARGER BRACKET PIN AT 185 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0163	NRI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@235 FEEDWATER SPARGER BRACKET PIN AT 235 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0074	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@245 FEEDWATER SPARGER BRACKET PIN AT 245 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0073	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@295 FEEDWATER SPARGER BRACKET PIN AT 295 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0077	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@305 FEEDWATER SPARGER BRACKET PIN AT 305 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0086	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@355 FEEDWATER SPARGER BRACKET PIN AT 355 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0097	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@5 FEEDWATER SPARGER BRACKET PIN AT 5 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0098	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-FWSBP@55 FEEDWATER SPARGER BRACKET PIN AT 55 DEGREES NA 305-006-118	X-C X11.10		VT-3	VDS0050	NRI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.

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1B13-FWSBP@65 FEEDWATER SPARGER BRACKET PIN AT 65 DEGREES N/A 305-006-118	X-C X11.10		VT-3	VDS0051	RI	PREVIOUS INDICATION. EXAM VISIBLE AREAS OF THE SPARGER BRACKET PIN. REFER TO SIL-658 AND CR 11-94528.
1B13-ICH/RPV-1-3209 In-core Housing to RPV Lower Head Penetration Weld N/A N/A 305-006-111	X-A X9.60		EVT-1	VDS0188	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE INCORE HOUSING TO RPV WELD FOR POSITION 32-09
1B13-ICH/RPV-1-3213 In-core Housing to RPV Lower Head Penetration Weld N/A N/A 305-006-111	X-A X9.60		EVT-1	VDS0190	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE INCORE HOUSING TO RPV WELD FOR POSITION 34-15 FOR POSITION 32-13
1B13-ICH/RPV-1-3229 In-core Housing to RPV Lower Head Penetration Weld N/A N/A 305-006-111	X-A X9.60		EVT-1	VDS0195	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE INCORE HOUSING TO RPV WELD FOR POSITION 32-29
1B13-ICH/RPV-1-3233 In-core Housing to RPV Lower Head Penetration Weld N/A N/A 305-006-111	X-A X9.60		EVT-1	VDS0193	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE INCORE HOUSING TO RPV WELD FOR POSITION 32-33
1B13-INTERIOR REACTOR VESSEL INTERIOR REGION N/A N/A 305-006-101	B-N-1 B13.10		VT-3	VDS0151	NRI	Examine the accessible surfaces of the shroud support plate for loose parts and debris. Color camera preferred.
1B13-INTERIOR-3011 REACTOR VESSEL INTERIOR REGION N/A N/A 305-006-111	B-N-1 B13.10		VT-3	VDS0186	NRI	EXAM VISIBLE AREAS OF THE LOWER PLENUM FROM CELL 30-11.
1B13-INTERIOR-3031 REACTOR VESSEL INTERIOR REGION N/A N/A 305-006-111	B-N-1 B13.10		VT-3	VDS0197	NRI	EXAM VISIBLE AREAS OF THE LOWER PLENUM FROM CELL 30-31
1B13-IRM-16/13 IRM INSTRUMENT DRY TUBE B N/A N/A 305-006-117	X-A X2.10		VT-3	VDS0180	NRI	EXAMINE UPPER 2FT OF ASSEMBLY, FROM AT LEAST TWO OPPOSING QUADRANTS, IAW SIL-409 AND RICSIL-73.
1B13-IRM-16/53 IRM INSTRUMENT DRY TUBE A N/A N/A 305-006-117	X-A X2.10		VT-3	VDS0181	NRI	EXAMINE UPPER 2FT OF ASSEMBLY, FROM AT LEAST TWO OPPOSING QUADRANTS, IAW SIL-409 AND RICSIL-73.
1B13-IRM-24/29 IRM INSTRUMENT DRY TUBE D N/A N/A 305-006-117	X-A X2.10		VT-3	VDS0182	NRI	EXAMINE UPPER 2FT OF ASSEMBLY, FROM AT LEAST TWO OPPOSING QUADRANTS, IAW SIL-409 AND RICSIL-73.

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1B13-IRM-24/37 IRM INSTRUMENT DRY TUBE C N/A N/A 305-006-117	X-A X2.10		VT-3	VDS0185	NRI	EXAMINE UPPER 2FT OF ASSEMBLY, FROM AT LEAST TWO OPPOSING QUADRANTS, IAW SIL-409 AND RICSIL-73.
1B13-JPA-P13 JET PUMP NOZZLE TO MIXER ASSEMBLY PUMP #13 N/A 305-006-126	X-A X1.30		VT-3	VDS0092	NRI	EXAMINE INLET AREA OF MIXER FOR CRUD BUILDUP/PLATING AROUND THE LIP OF THE INLET AND WITHIN THE THROAT IAW SIL 465. ONLY EXAMINE WHEN SAMPLE PUMPS 3/4 INDICATE FOULING.
1B13-JPA-P3 JET PUMP NOZZLE TO MIXER ASSEMBLY PUMP #3 N/A 305-006-126	X-A X1.30		VT-3	VDS0043	NRI	EXAMINE INLET AREA OF JP #3 MIXER FOR CRUD BUILDUP/PLATING AROUND THE LIP OF THE INLET AND WITHIN THE THROAT IAW SIL 465.
1B13-JPAS1-P05SS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0060	NRI	EXAMINE THE SHROUD SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78.
1B13-JPAS1-P05VS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0057	RI	PREVIOUS INDICATION. EXAMINE THE VESSEL SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78.
1B13-JPAS1-P06SS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0066	NRI	PREVIOUS INDICATION. EXAMINE THE SHROUD SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78.
1B13-JPAS1-P06VS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0065	NRI	EXAMINE THE VESSEL SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78.
1B13-JPAS1-P13SS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0100	RI	PREVIOUS INDICATION. EXAMINE THE SHROUD SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78. ALSO FOR PERRY 1R15, IF SET SCREW GAPS EXIST THAT EXCEED THE ZERO ADDITIONAL RISER BRACE FATIGUE CRITERIA OF NOT MORE THAN ONE GAP ON A JET PUMP PAIR, AND NO SINGLE G
1B13-JPAS1-P13VS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0095	RI	PREVIOUS INDICATION. EXAMINE THE VESSEL SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78. ALSO FOR PERRY 1R15, IF SET SCREW GAPS EXIST THAT EXCEED THE ZERO ADDITIONAL RISER BRACE FATIGUE CRITERIA OF NOT MORE THAN ONE GAP ON A JET PUMP PAIR, AND NO SINGLE G
1B13-JPAS1-P14SS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50		VT-1	VDS0087	RI	EXAMINE THE SHROUD SIDE SET SCREW FOR MIXER CONTACT IAW RICSIL-78. ALSO FOR PERRY 1R15, IF SET SCREW GAPS EXIST THAT EXCEED THE ZERO ADDITIONAL RISER BRACE FATIGUE CRITERIA OF NOT MORE THAN ONE GAP ON A JET PUMP PAIR, AND NO SINGLE GAP GREATER THAN 0.020

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	ASME Item No.	ASME				
1B13-JPAS1-P14VS JET PUMP RESTRAINER ADJUSTING SCREW CONTACT N/A 305-006-125	X-A X1.50	VT-1	VDS0081	RI	PREVIOUS INDICATION. EXAMINE THE VESSEL SIDE SET SCREW FOR MIXER CONTACT LAW RIGSIL-78. ALSO FOR PERRY 1R15, IF SET SCREW GAPS EXIST THAT EXCEED THE ZERO ADDITIONAL RISER BRACE FATIGUE CRITERIA OF NOT MORE THAN ONE GAP ON A JET PUMP PAIR, AND NO SINGLE G	
1B13-JPAS2-P05SS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD SHROUD SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0061	NRI	EXAMINE THE TACK WELDS ON THE SHROUD SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P05VS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD VESSELS SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0058	NRI	PREVIOUS INDICATION. EXAMINE THE TACK WELDS ON THE VESSEL SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P06SS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD SHROUD SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0063	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELDS ON THE SHROUD SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P06VS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD VESSELS SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0064	NRI	EXAMINE THE TACK WELDS ON THE VESSEL SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P13SS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD SHROUD SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0094	NRI	EXAMINE THE TACK WELDS ON THE SHROUD SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P13VS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD VESSELS SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0093	NRI	EXAMINE THE TACK WELDS ON THE VESSEL SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P14SS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD SHROUD SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0086	NRI	EXAMINE THE TACK WELDS ON THE SHROUD SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P14VS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD VESSELS SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0085	NRI	EXAMINE THE TACK WELDS ON THE VESSEL SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPAS2-P15SS JET PUMP RESTRAINER ADJUSTING SCREW TACK WELD SHROUD SIDE N/A 305-006-125	X-A X1.50	VT-1	VDS0089	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE SHROUD SIDE ADJUSTING SCREW FOR THE JET PUMP RESTRAINER BRACKET IN ACCORDANCE WITH SIL-574.	
1B13-JPRS1-P1/P2 JET PUMP RISER ELBOW WELD RS-1 N/A 305-006-126	X-A X1.70	EVT-1	VDS0137	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE ACCESSIBLE AREAS OF WELDS AND HAZs (BWRVIP#s RS-1) IAW SIL 605-1/BWRVIP-41. ALSO REFERENCE IN 97-02.	

ID of Component Examined	ASME Category	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
Description of Component	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
Size - Sched. - ISJ Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
1B13-JPRS1-P17/P18 JET PUMP RISER ELBOW WELD RS-1	X-A X1.70	EVT-1	VDS0153	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE ACCESSIBLE AREAS OF WELDS AND HAZs (BWRVIP#s RS-1) IAW SIL 605-1/BWRVIP-41. ALSO REFERENCE IN 97-02.	
N/A 305-006-126						
1B13-JPRS1-P19/P20 JET PUMP RISER ELBOW WELD RS-1	X-A X1.70	EVT-1	VDS0102	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE ACCESSIBLE AREAS OF WELDS AND HAZs (BWRVIP#s RS-1) IAW SIL 605-1/BWRVIP-41. ALSO REFERENCE IN 97-02.	
N/A 305-006-126						
1B13-JPRS2-P1/P2 JET PUMP RISER ELBOW WELD RS-2	X-A X1.70	EVT-1	VDS0116	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE ACCESSIBLE AREAS OF WELDS AND HAZs (BWRVIP#s RS-2) IAW SIL 605-1/BWRVIP-41. ALSO REFERENCE IN 97-02.	
N/A 305-006-126						
1B13-JPRS2-P17/P18 JET PUMP RISER ELBOW WELD RS-2	X-A X1.70	EVT-1	VDS0152	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE ACCESSIBLE AREAS OF WELDS AND HAZs (BWRVIP#s RS-2) IAW SIL 605-1/BWRVIP-41. ALSO REFERENCE IN 97-02.	
N/A 305-006-126						
1B13-JPRS2-P19/P20 JET PUMP RISER ELBOW WELD RS-2	X-A X1.70	EVT-1	VDS0139	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE ACCESSIBLE AREAS OF WELDS AND HAZs (BWRVIP#s RS-2) IAW SIL 605-1/BWRVIP-41. ALSO REFERENCE IN 97-02.	
N/A 305-006-126						
1B13-JPRS3-P11/P12 JET PUMP RISER PIPE TO TRANSITION PIECE WELD	X-A X1.71	EVT-1	VDS0166	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE WELD AND HAZ ON THE RISER (BWRVIP# RS-3) IAW BWRVIP-41.	
N/A N/A 305-006-126						
1B13-JPRS3-P13/P14 JET PUMP RISER PIPE TO TRANSITION PIECE WELD	X-A X1.71	EVT-1	VDS0142	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE WELD AND HAZ ON THE RISER (BWRVIP# RS-3) IAW BWRVIP-41.	
N/A N/A 305-006-126						
1B13-JPRS3-P15/P16 JET PUMP RISER PIPE TO TRANSITION PIECE WELD	X-A X1.71	EVT-1	VDS0103	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE HAZ ON THE RISER (BWRVIP# RS-3) IAW BWRVIP-41.	
N/A N/A 305-006-126						
1B13-JPRS3-P17/P18 JET PUMP RISER PIPE TO TRANSITION PIECE WELD	X-A X1.71	EVT-1	VDS0134	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE HAZ ON THE RISER (BWRVIP# RS-3) IAW BWRVIP-41.	
N/A N/A 305-006-126						
1B13-JPRS3-P19/P20 JET PUMP RISER PIPE TO TRANSITION PIECE WELD	X-A X1.71	EVT-1	VDS0101	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE HAZ ON THE RISER (BWRVIP# RS-3) IAW BWRVIP-41.	
N/A N/A 305-006-126						
1B13-JPWD1-P1 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1	X-A X1.51	VT-1	VDS0030	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
N/A 305-006-126						

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1B13-JPWD1-P10 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0029	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P11 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0154	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P12 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0158	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P13 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0037	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P14 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0048	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P15 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0062	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P16 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0023	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.
1B13-JPWD1-P17 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0055	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.

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	ASME Item No.	Exam Method				
1B13-JPWD1-P18 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0054	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P19 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0012	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P2 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0007	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P20 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0094	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P3 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0034	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P4 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0036	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P5 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0005	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P6 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0015	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	

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1B13-JPWD1-P7 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0018	RI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P8 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0024	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD1-P9 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE WD-1 N/A 305-006-125	X-A X1.51	VT-1	VDS0032	NRI	EXAMINE THE BRACKET & WEDGE BEARING SURFACES FOR SIGNS OF VIBRATION OR WEAR IAW BWRVIP-41 (BWRVIP# WD-1). IF WEAR IS FOUND, EXPAND SCOPE FOR THAT JET PUMP PAIR TO SET SCREW TACKS, SET SCREW CONTACT, BRACKET WELD, AND RISER BRACE EXAMS.	
1B13-JPWD2a-P1 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0028	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	
1B13-JPWD2a-P10 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0082	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	
1B13-JPWD2a-P11 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0156	NRI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	
1B13-JPWD2a-P12 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0159	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	
1B13-JPWD2a-P13 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0039	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	
1B13-JPWD2a-P14 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0046	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	
1B13-JPWD2a-P15 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0052	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE	

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1B13-JPWD2a-P16 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0021	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P17 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0056	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P18 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0025	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P19 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0013	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P2 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0019	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P20 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0002	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P3 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0006	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P4 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0008	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P5 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0009	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P6 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0016	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P7 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK NA 305-006-125	X-A X1.51	VT-1	VDS0020	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.	ASME				
1B13-JPWD2a-P8 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0041	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2a-P9 JET PUMP RESTRAINER BRACKET WEDGE UPPER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0040	RI	PREVIOUS INDICATION. EXAMINE THE TACK WELD ON THE TOP HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P1 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0031	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P10 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0083	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P11 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0157	NRI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P12 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0160	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P13 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0044	NRI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P14 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0045	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P15 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0053	NRI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P16 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0027	NRI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE
1B13-JPWD2b-P17 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51		VT-1	VDS0059	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE

ID of Component Examined			ASME Category	Exam Method	Exam Report No.	Status	Remarks
Description of Component	ASME Item No.	ASME					
Size - Sched. - ISJ Dwg. No.	Item No.	Category	Method	Report No.	Status	Remarks	
1B13-JPWD2b-P18 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0061	NRI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P19 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0014	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P2 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0115	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P20 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0003	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P3 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0035	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P4 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0011	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P5 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0010	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P6 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0017	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P7 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0022	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P8 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0042	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		
1B13-JPWD2b-P9 JET PUMP RESTRAINER BRACKET WEDGE LOWER HEX NUT TACK N/A 305-006-125	X-A X1.51	VT-1	VDS0033	RI	EXAMINE THE TACK WELD ON THE BOTTOM HEX NUT OF THE ROD CAPTURING THE WEDGE, EXAMINE THE ROD FOR WEAR AT THE POINT IT INTERSECTS WITH THE WEDGE		

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	ASME Item No.	Exam Method				
1B13-LPCI-A-61a LOOP A LPCI COUPLING THERMAL SLEEVE TO UPPER ELBOW PIPE N/A 305-006-124	X-A X8.10	EVT-1	VDS0119	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE THERMAL SLEEVE TO ELBOW WELD (BWRVIP#s 6-1a) IAW BWRVIP-42.	
1B13-LPCI-A-61b LOOP A LPCI COUPLING UPPER ELBOW TO FITTING WELD 6-1b N/A 305-006-124	X-A X8.10	EVT-1	VDS0123	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE UPPER ELBOW TO FITTING WELD (BWRVIP#s 6-1b) IAW BWRVIP-42.	
1B13-LPCI-A-61c LOOP A LPCI COUPLING FITTING TO LOWER ELBOW WELD 6-1c N/A 305-006-124	X-A X8.10	EVT-1	VDS0127	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE FITTING TO LOWER ELBOW WELD (BWRVIP#s 6-1c) IAW BWRVIP-42.	
1B13-LPCI-A-61d LOOP A LPCI COUPLING LOWER ELBOW TO ELBOW EXTENSION N/A 305-006-124	X-A X8.10	EVT-1	VDS0131	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE LOWER ELBOW TO ELBOW EXTENSION WELD (BWRVIP#s 6-1d) IAW BWRVIP-42.	
1B13-LPCI-A-64 LOOP A LPCI COUPLING STRUT TO SHROUD WELD 6-4 N/A 305-006-124	X-A X8.20	EVT-1	VDS0128	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE STRUT TO SHROUD WELD (BWRVIP#s 6-4) IAW BWRVIP-42.	
1B13-LPCI-A-65a LOOP A LPCI COUPLING STRUT TO ELBOW PAD WELD 6-5a N/A 305-006-124	X-A X8.20	EVT-1	VDS0129	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE STRUT TO ELBOW PAD WELD (BWRVIP#s 6-5a) IAW BWRVIP-42.	
1B13-LPCI-A-65b LOOP A LPCI COUPLING ELBOW PAD TO ELBOW WELD 6-5b N/A 305-006-124	X-A X8.20	EVT-1	VDS0130	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE ELBOW PAD TO ELBOW WELD (BWRVIP#s 6-5b) IAW BWRVIP-42.	
1B13-LPCI-A66 LOOP A LPCI SHROUD ATTACHMENT RING WELD N/A N/A 305-006-124	X-A X8.30	EVT-1	VDS0146	NRI	PERFORM PRECLEANING ASSESSMENT, PRECLEAN IF NECESSARY, AND EXAMINE THE SHROUD ATTACHMENT RING TO SHROUD WELD (BWRVIP# 6-6) IAW BWRVIP-42.	
1B13-N8-B RPV HEAD SPRAY NOZZLE N8 TO FLANGE BOLTING 6" N/A 305-006-103	B-G-2 B7.10	VT VT-1	1042-15-072	SAT		
1B13-RHRLPCI-A-D RHRLPCI FLOW DEFLECTORS N/A N/A 305-006-124	X-A X6.10	VT-1	VDS0138	NRI	INSIDE SHROUD AT 45 DEGREES; NEED PERIPHERAL FUEL BUNDLES ADJACENT TO THE DEFLECTORS REMOVED FOR CAMERA ACCESS.	
1B13-RHRLPCI-B-D RHRLPCI FLOW DEFLECTORS N/A N/A 305-006-124	X-A X6.10	VT-1	VDS0173	NRI	INSIDE SHROUD AT 225 DEGREES; NEED PERIPHERAL FUEL BUNDLES ADJACENT TO THE DEFLECTORS REMOVED FOR CAMERA ACCESS.	

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	ASME Item No.	ASME				
1B13-RHR/LPCI-C-D RHR/LPCI FLOW DEFLECTORS N/A N/A 305-006-124	X-A X6.10	VT-1	VDS0178	NRI	INSIDE SHROUD AT 135 DEGREES; NEED PERIPHERAL FUEL BUNDLES ADJACENT TO THE DEFLECTORS REMOVED FOR CAMERA ACCESS.	
1B13-SD-LA4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1- 1989	VDS0124	RI	PREVIOUS INDICATION. EXAMINE TACK WELDS IAW BWRVIP-139. Perform follow up examination, VT-1(89E) due to indications found during baseline exams. Reference CR's 09-54923 and 11-93580.	
1B13-SD-LB3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1- 1989	VDS0140	RI	PREVIOUS INDICATION. EXAMINE WELDS AND HAZ IAW BWRVIP-139. Perform follow up examination, VT-1(89E) due to indications found during baseline exams. Reference CR's 09-54661 and 11-93688.	
1B13-SD-LD4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1- 1989	VDS0125	RI	PREVIOUS INDICATION. EXAMINE TACK WELDS IAW BWRVIP-139. Perform follow up examination, VT-1(89E) due to indications found during baseline exams. Reference CR's 09-54923 and 11-93580.	
1B13-SD-USR-90-180 UPPER SUPPORT RING ACCESSIBLE SURFACES, INCL RING TO SKIRT N/A 305-006-128	X-A X4.12	VT-1- 1989	VDS0155	RI	PREVIOUS INDICATION. RE-EXAMINE LOCATIONS BASED ON THE LONGEST CIRC AND AXIAL CRACK, 120 TO 180 DEGREES, FROM PREVIOUS OUTAGE EXAMS. THIS IS A CONDITION MONITORING EXAMINATION FOR 1R14 AND 1R15. ALSO LOOK AT THE PREVIOUS INDICATIONS AT 210 DEGREES AND 340	
1B13-SHSAM-1 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 2 N/A 305-006-119	X-A X6.14	VT-3	VDS0210	NRI	ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #2 FOR WEAR.	
1B13-SHSAM-10 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 20 N/A 305-006-119	X-A X6.14	VT-3	VDS0219	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #20 FOR WEAR.	
1B13-SHSAM-11 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 22 N/A 305-006-119	X-A X6.14	VT-3	VDS0204	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #22 FOR WEAR.	
1B13-SHSAM-12 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 24 N/A 305-006-119	X-A X6.14	VT-3	VDS0205	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #24 FOR WEAR.	
1B13-SHSAM-13 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 26 N/A 305-006-119	X-A X6.14	VT-3	VDS0206	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #26 FOR WEAR.	
1B13-SHSAM-14 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 28 N/A 305-006-119	X-A X6.14	VT-3	VDS0207	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #28 FOR WEAR.	

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	ASME Item No.	ASME Item No.				
1B13-SHSAM-15 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 30 N/A 305-006-119	X-A X6.14		VT-3	VDS0208	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #30 FOR WEAR.
1B13-SHSAM-16 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 32 N/A 305-006-119	X-A X6.14		VT-3	VDS0209	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #32 FOR WEAR.
1B13-SHSAM-2 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 4 N/A 305-006-119	X-A X6.14		VT-3	VDS0211	RI	ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #4 FOR WEAR. Modified in R12.
1B13-SHSAM-3 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 6 N/A 305-006-119	X-A X6.14		VT-3	VDS0212	RI	ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #6 FOR WEAR.
1B13-SHSAM-4 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 8 N/A 305-006-119	X-A X6.14		VT-3	VDS0213	RI	ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #8 FOR WEAR. Modified in R12.
1B13-SHSAM-5 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 10 N/A 305-006-119	X-A X6.14		VT-3	VDS0214	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #10 FOR WEAR.
1B13-SHSAM-6 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 12 N/A 305-006-119	X-A X6.14		VT-3	VDS0215	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #12 FOR WEAR.
1B13-SHSAM-7 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 14 N/A 305-006-119	X-A X6.14		VT-3	VDS0216	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #14 FOR WEAR.
1B13-SHSAM-8 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 16 N/A 305-006-119	X-A X6.14		VT-3	VDS0217	RI	ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #16 FOR WEAR.
1B13-SHSAM-9 SHROUD HEAD STUD ASY MOD LOCKING PINS FOR ASY AT HOLE 18 N/A 305-006-119	X-A X6.14		VT-3	VDS0218	RI	PREVIOUS INDICATION. ACTUATE THE SPRING AND EXAMINE THE ANTI-ROTATION/LOCKING PINS OF THE SHSAM LOCATED IN SHROUD HEAD STUD HOLE #18 FOR WEAR.
1B13-SRM-16/45 SRM INSTRUMENT DRY TUBE A N/A N/A 305-006-117	X-A X2.10		VT-1	VDS0184	NRI	EXAMINE UPPER 2FT OF SRM ASSEMBLY IAW, FROM AT LEAST TWO OPPOSING QUADRANTS, SIL-409 AND RICSIL-73.

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Description of Component	ASME Item No.						
Size - Sched. - ISI Dwg. No.							
1B13-SRM-40/21 SRM INSTRUMENT DRY TUBE C	X-A X2.10		VT-1	VDS0183	NRI	EXAMINE UPPER 2FT OF SRM ASSEMBLY, FROM AT LEAST TWO OPPOSING QUADRANTS, IAW SIL-409 AND RICSIL-73.	
N/A N/A 305-606-117							
1B21-0168-B HEAD VENT/POOL FLOOR FLANGE CONNECTION BOLTING	B-G-2 B7.50		VT	1042-15-066	SAT		
2' 160 305-605-106			VT-1				
1B21-0186-B RPV UPPER HEAD SPRAY NOZZLE FLANGE BOLTING	B-G-2 B7.50		VT	1042-15-073	SAT		
4' N/A 305-605-105			VT-1				
1B21-F0041A-IS SRV, INTERNAL SURFACE (GROUPING NUMBER I)	B-M-2 B12.50		VT	1042-15-134	Accept		
10' N/A 305-605-101			VT-3				
1B21-F028A-10B MSIV STUD	B-G-1 B6.210		UT	UT-15-E018 (Page	NRI		
N/A N/A 305-605-111			UT				
1B21-F028A-10B MSIV STUD	B-G-1 B6.210		UT	UT-15-E018 (Page	NRI	Zone 2 Sensitivity 65.4	
N/A N/A 305-605-111			UT				
1B21-F028A-11B MSIV STUD	B-G-1 B6.210		UT	UT-15-E017 (Page	NRI		
N/A N/A 305-605-111			UT				
1B21-F028A-11B MSIV STUD	B-G-1 B6.210		UT	UT-15-E017 (Page	NRI	Zone 2 Sensitivity 65.4	
N/A N/A 305-605-111			UT				
1B21-F028A-12B MSIV STUD	B-G-1 B6.210		UT	UT-15-E016 (Page	NRI		
N/A N/A 305-605-111			UT				
1B21-F028A-12B MSIV STUD	B-G-1 B6.210		UT	UT-15-E016 (Page	NRI	Zone 2 Sensitivity 65.4	
N/A N/A 305-605-111			UT				
1B21-F028A-7B MSIV STUD	B-G-1 B6.210		UT	UT-15-E021 (Page	NRI		
N/A N/A 305-605-111			UT				

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	ASME Item No.	ASME Item No.				
1B21-F028A-7B MSIV STUD	B-G-1 B6.210		UT	UT-15-E021 (Page	NRI	Zone 2 Sensitivity 65.4
N/A N/A 305-605-111			UT			
1B21-F028A-8B MSIV STUD	B-G-1 B6.210		UT	UT-15-E020 (Page	NRI	
N/A N/A 305-605-111			UT			
1B21-F028A-8B MSIV STUD	B-G-1 B6.210		UT	UT-15-E020 (Page	NRI	Zone 2 Sensitivity 65.4
N/A N/A 305-605-111			UT			
1B21-F028A-9B MSIV STUD	B-G-1 B6.210		UT	UT-15-E019 (Page	NRI	
N/A N/A 305-605-111			UT			
1B21-F028A-9B MSIV STUD	B-G-1 B6.210		UT	UT-15-E019 (Page	NRI	Zone 2 Sensitivity 65.4
N/A N/A 305-605-111			UT			
1B21-F041A-B SRV BOLTING, 12 EACH	B-G-2 B7.50		VT	1042-15-133	SAT	
10" N/A 305-605-101			VT-1			
1B21-G101A RIGID GUIDE (WA) MPL 1B21G7030	F-A F1.G		VT	1042-15-130	SAT	
26" N/A 305-605-101			VT-3			
1B21-H0020 MECHANICAL SNUBBER (WA) (TANDEM)	F-A F3.SN		VT	1042-15-126	SAT	
10" N/A 305-605-125			VT-3			
1B21-H0020-WA INTEGRAL ATTACHMENT MECHANICAL SNUBBER	D-A D1.20		VT	1042-15-127	SAT	
10" N/A 305-605-125			VT-1			
1B21-H0121 ANCHOR (WA)	F-A F3.A		VT	1042-15-128	SAT	
10" N/A 305-605-129			VT-3			
1B21-H0121-WA INTEGRAL ATTACHMENT ANCHOR	D-A D1.20		VT	1042-15-129	SAT	
10" N/A 305-605-129			VT-1			

ID of Component Examined			ASME Category	Exam Method	Exam Report No.	Status	Remarks
Description of Component	Size - Sched. -	ISI Dwg. No.	ASME Item No.				
1B21-H0126 MECHANICAL SNUBBER			F-A F3.SN	VT	1042-15-125	SAT	
14"	N/A	305-605-129		VT-3			
1B21-P122-WA @ P122 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	26"	80 305-605-109	X-E X10.20	UT	UT-15-E029 (Page	NRI	
				UT			
1B21-P122-WA @ P122 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	26"	80 305-605-109	X-E X10.20	UT	UT-15-E029 (Page	NRI	Previously recorded indication observed below recordable levels.
				UT			
1B21-P122-WA @ P122 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	26"	80 305-605-109	X-E X10.20	UT	UT-15-E029 (Page	NRI	Observed previously recorded indications at lower amplitude than previously recorded. Scanned in one direction only, toward face. Correction Factor = 5.0 dB.
				UT			
1B21-P415-WA @ P415 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	N/A	N/A 305-605-110	X-E X10.20	UT	UT-15-E028 (Page	NRI	
				UT			
1B21-P415-WA @ P415 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	N/A	N/A 305-605-110	X-E X10.20	UT	UT-15-E028 (Page	NRI	Previously recorded indication observed below recordable levels.
				UT			
1B21-P415-WA @ P415 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	N/A	N/A 305-605-110	X-E X10.20	UT	UT-15-E028 (Page	NRI	Observed previously recorded indications at lower amplitude than previously recorded. Scanned in one direction only, toward face. Correction Factor = 5.0 dB.
				UT			
1B21-P416-WA @ P416 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	26"	305-605-108	X-E X10.20	UT	UT-15-E027 (Page	NRI	
				UT			
1B21-P416-WA @ P416 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	26"	305-605-108	X-E X10.20	UT	UT-15-E027 (Page	NRI	Previously recorded indication observed below recordable levels.
				UT			
1B21-P416-WA @ P416 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD	26"	305-605-108	X-E X10.20	UT	UT-15-E027 (Page	NRI	Observed previously recorded indications at lower amplitude than previously recorded. Scanned in one direction only, toward face. Correction Factor = 5.0 dB.
				UT			
1B33-0096 16" PIPE TO CAP (CRC)			R-A R2.ND	UT	UT-15-E030 (Page	NRI	
16"	.951"	305-602-103		UT			

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B33-0096 16" PIPE TO CAP (CRC)	R-A R2.ND	UT	UT-15-E030 (Page	NRI	Maintained 5% to 20% ID Roll.
16" .951" 305-602-103		UT			
1B33-0096 16" PIPE TO CAP (CRC)	R-A R2.ND	UT	UT-15-E030 (Page	NRI	Due to material noise scanned at Reference.
16" .951" 305-602-103		UT			
1B33-0096-J PIPE SEAM, UPSTREAM	R-A R2.LS	UT	UT-15-E031 (Page	NRI	
16" .951" 305-602-103		UT			
1B33-0096-J PIPE SEAM, UPSTREAM	R-A R2.LS	UT	UT-15-E031 (Page	NRI	Maintained 5% to 20% ID Roll.
16" .951" 305-602-103		UT			
1B33-0096-J PIPE SEAM, UPSTREAM	R-A R2.LS	UT	UT-15-E031 (Page	NRI	Due to material noise scanned at Reference.
16" .951" 305-602-103		UT			
1B33-H355B VARIABLE SPRING, MPL 1B33G7023B	F-A F1.SP	VT	1042-15-063	SAT	
24" N/A 305-602-104		VT-3			
1C11-0003 8" ELBOW TO TEE	C-F-2 C5.51	UT	UT-15-E007	NRI	
8" 100 305-871-103		UT			
1C11-0007 12" PIPE TO CAP	C-F-2 C5.51	UT	UT-15-E008 (Page	NRI	
12" 100 305-871-103		UT			
1C11-0007 12" PIPE TO CAP	C-F-2 C5.51	UT	UT-15-E008 (Page	NRI	Supplemental 45° Shear used to exam area between wall and pipe and exam area between weld and gamma plug.
12" 100 305-871-103		UT			
1C11-0030 8" CAP TO PIPE	C-F-2 C5.51	UT	UT-15-E006	NRI	
8" 100 305-871-104		UT			
1C11-H0052 RIGID GUIDE (WA)	F-A F2.G	VT	1042-15-059	SAT	
8" N/A 305-871-101		VT-3			

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1C11-H0634 RIGID STRUT (AUGMENTED HEPIBER) 2.5" N/A 305-871-105	F-A aug F1.50	VT VT-3	1042-15-026	SAT	
1C11-H0673 MECHANICAL SNUBBER 8" N/A 305-871-101	F-A F2.SN	VT VT-3	1042-15-058	SAT	
1C11-H0695 RIGID ANCHOR (AUGMENTED HEPIBER) 2.5" N/A 305-871-105	F-A aug F1.50	VT VT-3	1042-15-024	SAT	
1C11-H5161 RIGID GUIDE (AUGMENTED HEPIBER) 2.5" N/A 305-871-105	F-A aug F1.50	VT VT-3	1042-15-025	SAT	
1E12-0854 12" ELBOW TO ELBOW 12" 80 305-642-134	R-A R2.ND	UT UT	UT-15-E001	NRI	
1E12-0858 12" PIPE TO ELBOW 12" 80 305-642-135	R-A R2.ND	UT UT	UT-15-E009	NRI	
1E12-0859 12" ELBOW TO PIPE 12" 80 305-642-135	R-A R2.ND	UT UT	UT-15-E010	NRI	
1E12-0874 12" ELBOW TO PIPE 12" 80 305-642-143	R-A R2.ND	UT UT	UT-15-E012	NRI	
1E12-0880 12" ELBOW TO PRB2035 PROCESS PIPE 12" 80 305-642-143	R-A R2.ND	UT UT	UT-15-E013	NRI	
1E12-F0041B-IS 12" CHECK VALVE INTERNAL SURFACE (GROUPING NO. XIII) 12" N/A 305-642-141	B-M-2 B12.50	VT VT-3	1Q800-15-025	SAT	NONE
1E12-F0041C-IS 12" CHECK VALVE INTERNAL SURFACE (GROUPING NO. XIII) 12" N/A 305-642-145	B-M-2 B12.50	VT VT-3	1Q800-15-024	SAT	NONE

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1E12-H0004 MECHANICAL SNUBBER 12' N/A 305-642-141	F-A F1.SN	VT VT-3	1042-15-070	SAT	
1E12-H0050 RIGID ROD 12' N/A 305-642-139	F-A F1.R	VT VT-3	1042-15-068	SAT	
1E12-H0120 ANCHOR (WA) 12' N/A 305-643-110	F-A F2.A	VT VT-3	1042-15-029	SAT	
1E12-H0120-WA PIPING SUPPORT WELDED ATTACHMENT 12' N/A 305-643-110	C-C C3.20	MT MT	0942-15A-003	ACC	
1E12-H0138 VARIABLE SPRING 18' N/A 305-643-115	F-A F2.SP	VT VT-3	1042-15-021	SAT	
1E12-H0143 RIGID STRUT (WA) N/A N/A 305-643-116	F-A F2.ST	VT VT-3	1042-15-016	SAT	
1E12-H0170 HYDRAULIC SNUBBER 24' N/A 305-642-111	F-A F2.SN	VT VT-3	1042-15-017	SAT	
1E12-H0187 RIGID GUIDE (WA) 18' N/A 305-643-101	F-A F2.G	VT VT-3	1042-15-023	SAT	
1E12-H0187-WA PIPING SUPPORT WELDED ATTACHMENT 18' N/A 305-643-101	C-C C3.20	MT MT	0942-15A-001	ACC	
1E12-H0372-WA PIPING SUPPORT WELDED ATTACHMENT 18' N/A 305-642-113	C-C C3.20	MT MT	0942-15A-002	ACC	
1E12-H0409 VARIABLE SPRING 12' N/A 305-642-134	F-A F1.SP	VT VT-3	1042-15-011	SAT	

ID of Component Examined			ASME Category	Exam Method	Exam Report No.	Status	Remarks
Description of Component	Size - Sched. -	ISI Dwg. No.	ASME Item No.				
1E12-H0416 MECHANICAL SNUBBER			F-A F1.SN	VT	1042-15-014	SAT	
12"	N/A	305-642-134		VT-3			
1E12-H0421 MECHANICAL SNUBBER			F-A F2.SN	VT	1042-15-019	SAT	
6"	N/A	305-643-120		VT-3			
1E12-H0426 VARIABLE SPRING			F-A F2.SP	VT	1042-15-010	SAT	
18"	N/A	305-643-120		VT-3			
1E12-H0561 MECHANICAL SNUBBER			F-A F2.SN	VT	1042-15-012	SAT	
12"	N/A	305-642-136		VT-3			
1E12-H0562 RIGID STRUT (WA < .75" T)			F-A F2.ST	VT	1042-15-009	SAT	
18"	N/A	305-643-110		VT-3			
1E12-H0652 MECHANICAL SNUBBER			F-A F1.SN	VT	1042-15-057	SAT	
12"	N/A	305-642-137		VT-3			
1E12-H0709 VARIABLE SPRING			F-A F2.SP	VT	1042-15-020	SAT	
N/A	N/A	305-643-116		VT-3			
1E12-H0710 MECHANICAL SNUBBER			F-A F2.SN	VT	1042-15-018	SAT	
N/A	N/A	305-642-111		VT-3			
1E12-H0747 MECHANICAL SNUBBER			F-A F2.SN	VT	1042-15-013	SAT	
12"	N/A	305-642-132		VT-3			
1E12-H0766 MECHANICAL SNUBBER			F-A F1.SN	VT	1042-15-065	Eval	
12"	N/A	305-642-145		VT-3			
1E12-H6000 RIGID GUIDE			F-A F2.Gs	VT	1042-15-015	SAT	
N/A	N/A	305-643-116		VT-3			

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.					
1E12-PRB2035-SP ANCHOR, PEN TO DRYWELL (WA)	F-A F1.A		VT	1042-15-069	SAT	
N/A N/A 305-642-143			VT-3			
1E12-PRB2035-WA PRB2035 FLUED HD FITTING TO PROCESS PIPE ATTACH WD 12" N/A 305-642-143	B-K B10.20		MT	0942-15A-004	ACC	
			MT			
1E22-0024 12" PIPE TO ELBOW	R-A R2.ND		UT	UT-15-E004	NRI	
12" 80 305-701-108			UT			
1E22-0025 12" ELBOW TO PIPE	R-A R2.ND		UT	UT-15-E005	NRI	
12" 80 305-701-108			UT			
1E22-C001-SP1 PUMP SUPPORT, ANCHOR	F-A F1.40		VT	1042-15-051	SAT	
N/A N/A 305-701-114			VT-3			
1E22-H0004 RIGID STRUT	F-A F1.ST		VT	1042-15-064	SAT	
12" N/A 305-701-111			VT-3			
1E22-H0029 RIGID STRUT (TANDEM)	F-A F2.ST		VT	1042-15-050	SAT	
24" N/A 305-701-102			VT-3			
1E22-H0070 MECHANICAL SNUBBER	F-A F2.SN		VT	1042-15-053	SAT	
16" N/A 305-701-108			VT-3			
1E22-H0071 VARIABLE SPRING	F-A F2.SP		VT	1042-15-052	EVAL	
12" N/A 305-701-105			VT-3			
1E22-H0119 MECHANICAL SNUBBER	F-A F1.SN		VT	1042-15-054	SAT	
12" N/A 305-701-108			VT-3			
1E22-H0132 ANCHOR (WA)	F-A F3.A		VT	1042-15-027	SAT	
24" N/A 305-355-101			VT-3			

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.	ASME Item No.				
1E22-H0132-WA INTEGRAL ATTACHMENT ANCHOR 24" N/A 305-355-101	D-A D1.20		VT VT-1	1042-15-028	SAT	
1E22-H0138 VARIABLE SPRING (WA) N/A 305-355-101	F-A F3.SP		VT VT-3	1042-15-022	SAT	
1E22-S001-SP D.G. HEAT EXCHANGER SUPPORT (WA) N/A N/A 305-791-101	F-A F1.40		VT VT-3	1042-15-006	SAT	
1E22-S001-WA JACKET WATER HEAT EXCHANGER VESSEL ANCHOR N/A N/A 305-791-101	D-A D1.10		VT VT-1	1042-15-007	SAT	
1E51-0001-B 6" FLANGE BOLTING 6" N/A 305-631-108	B-G-2 B7.50		VT VT-1	1042-15-071	SAT	
1E51-0024 6" ELBOW TO PIPE 6" 80 305-631-106	R-A R2.11		UT UT	UT-15-E022	NRI	
1E51-0025 6" PIPE TO ELBOW 6" 80 305-631-106	R-A R2.11		UT UT	UT-15-E023	NRI	
1E51-0029 6" PIPE TO ELBOW 6" 80 305-631-105	R-A R1.11		UT UT	UT-15-E002	NRI	
1E51-0029A 6" TEE TO PIPE 6" 80 305-631-105	R-A R1.11		UT UT	UT-15-E003 (Page	NRI	
1E51-0029A 6" TEE TO PIPE 6" 80 305-631-105	R-A R1.11		UT UT	UT-15-E003 (Page	NRI	Supplemental 70° Shear examination performed due to single side access at crotch area of tee.
1E51-0121 10" P422 PROCESS PIPE TO PIPE 10" 80 305-632-102	R-A R2.ND		UT UT	UT-15-E024	NRI	

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.					
1E51-F0066-IS 6" CHECK VALVE INTERNAL SURFACE(GROUPING NO. XXIII) 6" N/A 305-631-108	B-M-2 B12.50		VT	1Q800-15-026	SAT	NONE
			VT-3			
1E51-H0039 RIGID STRUT 6" N/A 305-631-106	F-A F1.ST		VT	1042-15-123	SAT	
			VT-3			
1E51-H0040 VARIABLE SPRING 6" N/A 305-631-105	F-A F1.SP		VT	1042-15-036	SAT	
			VT-3			
1E51-H0076 RIGID GUIDE 6" N/A 305-631-107	F-A F1.G		VT	1042-15-062	SAT	
			VT-3			
1E51-H0131 RIGID GUIDE 12" N/A 305-632-103	F-A F2.G		VT	1042-15-035	SAT	
			VT-3			
1E51-H0137 RIGID STRUT 6" N/A 305-631-105	F-A F2.ST		VT	1042-15-037	SAT	
			VT-3			
1G33-0115 6" PENE, P132 PROCESS PIPE TO VALVE F039 6" 120 305-672-102	C-F-2 C5.51		UT	UT-15-E011 (Page	NRI	
			UT			
1G33-0115 6" PENE, P132 PROCESS PIPE TO VALVE F039 6" 120 305-672-102	C-F-2 C5.51		UT	UT-15-E011 (Page	NRI	Supplemental 60° Shear examination due to single side access.
			UT			
1G33-H0144 MECHANICAL SNUBBER (AUGMENTED HEPIBER) 6" N/A 305-671-104	F-A aug F1.50		VT	1042-15-122	SAT	
			VT-3			
1G33-H0145 VARIABLE SPRING (AUGMENTED HEPIBER) 6" N/A 305-671-104	F-A aug F1.50		VT	1Q800-15-016	SAT	
			VT-3			
1G33-H0215 MECHANICAL SNUBBER 6" N/A 305-672-102	F-A F2.SN		VT	1042-15-124	SAT	
			VT-3			

ID of Component Examined			ASME Category	Exam Method	Exam Report No.	Status	Remarks
Description of Component	Size - Sched.	ISI Dwg. No.	ASME Item No.				
1G33-H0269 MECHANICAL SNUBBER (AUGMENTED HEPIBER)	4"	N/A	305-672-103	F-A aug F1.50	VT	1042-15-061	SAT
					VT-3		
1G33-H0271 RIGID STRUT (AUGMENTED HEPIBER)	4"	N/A	305-672-103	F-A aug F1.50	VT	1042-15-060	SAT
					VT-3		
1N22-H0012 RIGID STRUT	2"	N/A	305-121-102	F-A F1.5T	VT	1042-15-132	SAT
					VT-3		
1N22-H0013 MECHANICAL SNUBBER	2"	N/A	305-121-102	F-A F1.5N	VT	1042-15-131	SAT
					VT-3		
1N27-0009 20" VALVE F032A TO PENE. P121 PROCESS PIPE	20"	80	305-082-101	R-A R1.11	UT	UT-15-E026	NRI
					UT		
1N27-0010A 20" PIPE TO PIPE	20"	80	305-082-101	C-F-2 C5.51	UT	UT-15-E025	NRI
					UT		
1N27-F0559A-IS 20" CHECK VALVE,INTERNAL SURFACE (GROUPING NO.III)	20"	N/A	305-082-102	B-M-2 B12.50	VT	1Q800-15-042	SAT N/A
					VT-3		
1N27-F0559B-IS 20" CHECK VALVE,INTERNAL SURFACE (GROUPING NO.III)	20"	N/A	305-082-105	B-M-2 B12.50	VT	1Q800-15-041	SAT N/A
					VT-3		
1N27-H0034 RIGID GUIDE (AUGMENTED HEPIBER)	20"	N/A	305-082-101	F-A aug F1.50	VT	1042-15-067	SAT
					VT-3		
1P42-H0171-WA INTEGRAL ATTACHMENT ANCHOR	10"	N/A	305-621-107	D-A D1.20	VT	1042-15-045	SAT
					VT-1		
1P42-H0231 RIGID STRUT	10"	N/A	305-621-105	F-A F3.5T	VT	1042-15-047	SAT
					VT-3		

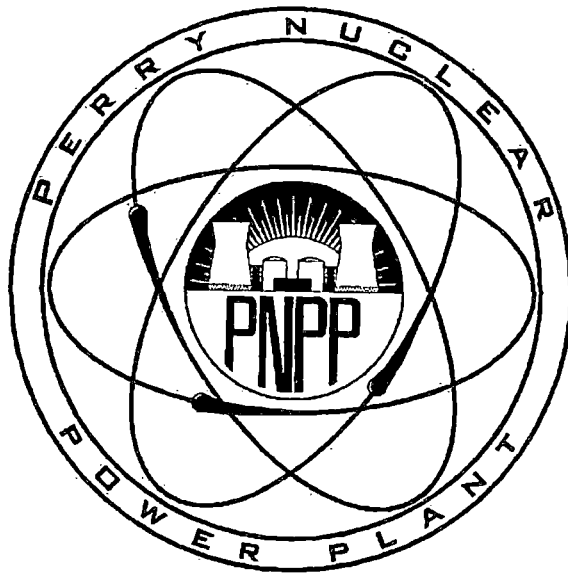
ID of Component Examined			ASME Category	Exam Method	Exam Report No.	Status	Remarks
Description of Component	Size - Sched. -	ISI Dwg. No.	ASME Item No.				
1P45-H0044 RIGID GUIDE			F-A F3.G	VT	1042-15-049	SAT	
14"	N/A	305-792-116		VT-3			
1P45-H0084 RIGID GUIDE			F-A F3.G	VT	1042-15-039	SAT	
24"	N/A	305-791-111		VT-3			
1P45-H0368 RIGID GUIDE			F-A F3.G	VT	1042-15-032	SAT	
16"	N/A	305-792-110		VT-3			
1P45-H0506 RIGID GUIDE			F-A F3.G	VT	1042-15-044	SAT	
8"	N/A	305-792-114		VT-3			
1P45-H0510 MECHANICAL SNUBBER (WA)			F-A F3.SN	VT	1042-15-043	SAT	
8"	N/A	305-792-114		VT-3			
1P45-H0510-WA INTEGRAL ATTACHMENT MECHANICAL SNUBBER			D-A D1.20	VT	1042-15-042	SAT	
8"	N/A	305-792-114		VT-1			
1P45-H0650 RIGID STRUT			F-A F3.ST	VT	1042-15-038	SAT	
14"	N/A	305-791-113		VT-3			
1P47-H0011 RIGID STRUT			F-A F3.ST	VT	1042-15-031	SAT	
10"	N/A	305-002-101		VT-3			
1P47-H0037 RIGID ROD			F-A F3.R	VT	1042-15-034	SAT	
10"	N/A	305-002-103		VT-3			
1P47-H0257 RIGID STRUT			F-A F3.STm	VT	1042-15-030	SAT	
10"	N/A	305-002-110		VT-3			
1P47-H0259 RIGID GUIDE			F-A F3.G	VT	1042-15-046	SAT	
10"	N/A	305-002-110		VT-3			

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1P47-H0279 MECHANICAL SNUBBER (WA) 10" N/A 305-002-113	F-A F3.SN	VT VT-3	1042-15-041	SAT	
1P47-H0279-WA INTEGRAL ATTACHMENT MECHANICAL SNUBBER 10" N/A 305-002-113	D-A D1.20	VT VT-1	1042-15-040	SAT	
1P47-H0363 RIGID STRUT 6" N/A 305-002-112	F-A F3.ST	VT VT-3	1042-15-033	SAT	
1R44-A002A-SP ANCHOR, STARTING AIR RECEIVER TANK (WA) N/A N/A 305-351-103	F-A F1.40	VT VT-3	1042-15-004	SAT	
1R45-A005-SP ANCHOR, HPCS FUEL OIL DAY TANK (WA) N/A N/A 305-356-101	F-A F1.40	VT VT-3	1042-15-005	SAT	
1R46-B001A-SP ANCHOR, LUBE OIL HEAT EXCHANGER (WA) N/A N/A 305-354-101	F-A F1.40	VT VT-3	1042-15-001	SAT	
1R46-B001A-WA INTEGRAL ATTACHMENT LUBE OIL HEAT EXCHANGER ANCHOR N/A N/A 305-354-101	D-A D1.10	VT VT-1	1042-15-002	SAT	
1R47-D005A-SP STANDBY DIESEL GEN. LUBE OIL FILTER ANCHOR (WA) N/A N/A 305-353-105	F-A F1.40	VT VT-3	1042-15-003	SAT	
1R48-H0050 RIGID STRUT (WA) 20" N/A 305-355-107	F-A F3.ST	VT VT-3	1042-15-008	SAT	
2P42-H0150 RIGID STRUT 10" N/A 305-623-104	F-A F3.ST	VT VT-3	1042-15-048	SAT	
CLASS 1, PR COMP REACTOR VESSEL - SYSTEM LEAKAGE TEST (ISI-B21-T1300-1) N/A N/A 305-NO-DWG	B-P B15.10	VT VT-2	1Q800-15-027	SAT	NONE

ID of Component Examined			ASME Category		Exam Report No.	Status	Remarks
Description of Component	ASME	Exam	Item No.	Method			
Size - Sched. - ISI Dwg. No.							

Table Notes:

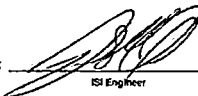
1. Status codes are "SAT", "UNSAT" or "EVAL" for visual exams. For surface exams they are "ACC" for acceptable, "REJ" for rejectable and "INFO" for exams that require additional information. For ultrasonic exams they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications along with "SAT", "UNSAT" or "EVAL" for vendor UT datasheets. For Invesel Visual inspections (IVI) they are "NRI" for no recordable indications and "RI" for recordable indications.
2. The above exam listing is all the inservice examinations that were performed during Cycle 15 or 1R15 in accordance with Perry's Inservice Examination Plan (ISEP).




First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P1059-0015
Third Interval, Second Period, First Outage (1R15)
Cycle 15 and 1R15 Preservice Examinations

Prepared by:  Date: 6/9/15
ISI Engineer

Reviewed by:  Date: 6/23/15
Authorized Nuclear Service Inspector

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1B21-0168-B HEAD VENT/POOL FLOOR FLANGE CONNECTION BOLTING 2" 160 305-605-106	B-G-2 B7.50	VT VT-1	1Q800-15-033	SAT	NONE
1B21-F0041A-IS SRV, INTERNAL SURFACE (GROUPING NUMBER I) 10" N/A 305-605-101	B-M-2 B12.50	VT VT-3	1Q800-15-017	SAT	NONE
1B21-F041A-B SRV BOLTING, 12 EACH 10" N/A 305-605-101	B-G-2 B7.50	VT VT-1	1Q800-15-018	SAT	NONE
1B21-F041B-B SRV BOLTING, 12 EACH 10" N/A 305-605-102	B-G-2 B7.50	VT VT-1	1Q800-15-031	SAT	NONE
1B21-F041C-B SRV BOLTING, 12 EACH 10" N/A 305-605-103	B-G-2 B7.50	VT VT-1	1Q800-15-022	SAT	NONE
1B21-F041E-B SRV BOLTING, 12 EACH 10" N/A 305-605-101	B-G-2 B7.50	VT VT-1	1Q800-15-023	SAT	NONE
1B21-F047C-B SRV BOLTING, 12 EACH 10" N/A 305-605-103	B-G-2 B7.50	VT VT-1	1Q800-15-020	SAT	NONE
1B21-F047F-B SRV BOLTING, 12 EACH 10" N/A 305-605-102	B-G-2 B7.50	VT VT-1	1Q800-15-032	SAT	NONE
1B21-F051A-B SRV BOLTING, 12 EACH 10" N/A 305-605-101	B-G-2 B7.50	VT VT-1	1Q800-15-021	SAT	NONE
1B21-F051C-B SRV BOLTING, 12 EACH 10" N/A 305-605-103	B-G-2 B7.50	VT VT-1	1Q800-15-019	SAT	NONE
1B21-H0022 MECHANICAL SNUBBER 12" N/A 305-605-125	F-A F3.SN	VT VT-3	1Q800-15-055	SAT	PSI of replaced load stud on snubber

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1B21-H0445 HYDRAULIC SNUBBER 2" N/A 305-605-106	F-A F1.SN	VT VT-3	1Q800-15-043	SAT	PSI of replaced snubber
1B21-H0449 HYDRAULIC SNUBBER 2" N/A 305-605-106	F-A F1.SN	VT VT-3	1Q800-15-044	SAT	PSI of replaced snubber
1B21-H0450 HYDRAULIC SNUBBER 2" N/A 305-605-106	F-A F1.SN	VT VT-3	1Q800-15-045	SAT	PSI of replaced snubber
1B21-H0453 HYDRAULIC SNUBBER 2" N/A 305-605-106	F-A F1.SN	VT VT-3	1Q800-15-028	SAT	Performed due to CR 2013-09548.
1B21-H0471 HYDRAULIC SNUBBER 2" N/A 305-605-106	F-A F1.SN	VT VT-3	1Q800-15-046	SAT	PSI of replaced snubber
1B21-S102C HYDRAULIC SNUBBER MPL 1B21G7074 26" N/A 305-605-103	F-A F1.SN	VT VT-3	1Q800-15-047	SAT	PSI of replaced snubber
1B21-S105B HYDRAULIC SNUBBER MPL 1B21G7085 26" N/A 305-605-102	F-A F1.SN	VT VT-3	1Q800-15-048	SAT	PSI of replaced snubber
1E12-H0322 MECHANICAL SNUBBER (WA) 18" N/A 305-642-103	F-A F2.SN	VT VT-3	1Q800-15-049	SAT	PSI of replaced snubber
1E22-H0001 HYDRAULIC SNUBBER 12" N/A 305-701-111	F-A F1.SN	VT VT-3	1Q800-15-050	SAT	PSI of replaced snubber
1E22-H0002 HYDRAULIC SNUBBER 12" N/A 305-701-111	F-A F1.SN	VT VT-3	1Q800-15-051	SAT	PSI of replaced snubber
1E51-H0074 HYDRAULIC SNUBBER 6" N/A 305-631-108	F-A F1.SN	VT VT-3	1Q800-15-052	SAT	PSI of replaced snubber

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.					
1G33-0024A 2" TEE TO PIPE 2" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-001	ACC	
1G33-0024B 2" PIPE TO VALVE F029 2" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-002	ACC	N/A
1G33-0024C 2" VALVE F029 TO PIPE 2" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-003	ACC	N/A
1G33-0024D 2" PIPE TO VALVE F030 2" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-004	EVAL	LEVEL III EVALUATION REQUIRED
1G33-0024D 2" PIPE TO VALVE F030 2" 160 305-671-102	R-A R3.ND	PT PT		1Q800-15-002	SAT	
1G33-0025 2" ELBOW TO PIPE 2" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-024	ACC	
1G33-0026 2" PIPE TO X 3" X 2" REDUCER 2" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-014	ACC	N/A
1G33-0027 3" X 2" REDUCER TO 3" PIPE 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-013	ACC	N/A
1G33-0028 3" PIPE TO 3"X3"X1 1/2" TEE 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-012	ACC	N/A
1G33-0029 3" TEE TO PIPE 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-011	ACC	N/A
1G33-0030 3" PIPE TO ELBOW 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-010	ACC	N/A

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Method	Exam Report No.	Status	Remarks
	ASME Item No.	ASME Method				
1G33-0031 3" ELBOW TO PIPE 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-009	ACC	N/A
1G33-0032 3" PIPE TO VALVE F101 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-008	ACC	N/A
1G33-0033 3" VALVE F101 TO PIPE 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-007	ACC	N/A
1G33-0034 3" PIPE TO 3"x3"x1-1/2" TEE 3" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-006	ACC	N/A
1G33-0035 1 1/2" PIPE TO 3" X 1 1/2" TEE 1.5" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-016	ACC	N/A
1G33-0036 1 1/2" ELBOW TO PIPE 1.5" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-017	EVAL	NDE LEVEL III EVALUATION REQUIRED
1G33-0036 1 1/2" ELBOW TO PIPE 1.5" 160 305-671-102	R-A R3.ND	PT PT		1Q800-15-001	SAT	
1G33-0037 1 1/2" PIPE TO ELBOW 1.5" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-016	ACC	N/A
1G33-0038 1 1/2" VALVE F103 TO PIPE 1.5" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-019	ACC	N/A
1G33-0039 1 1/2" PIPE TO VALVE F103 1.5" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-020	ACC	N/A
1G33-0040 3" X 1 1/2" TEE TO PIPE 1.5" 160 305-671-102	R-A R3.ND	PT PT		0941-15A-021	ACC	N/A

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1G33-0041 3" TEE TO PIPE 3" 160 305-671-102	R-A R3.ND	PT PT	0941-15A-005	ACC	N/A
1G33-0041A 3" PIPE TO PIPE 3" 160 305-671-102	R-A R3.ND	PT PT	0941-15A-026	ACC	
1G33-0042 3" PIPE TO ELBOW 3" 160 305-671-102	R-A R3.ND	PT PT	0941-15A-025	ACC	
1G33-F0101-SEAM 3" GATE VALVE BODY WELD (GROUPING NO. X) 3" 1.120" 305-671-102	B-M-1 B12.30	PT PT	0941-15A-015	ACC	N/A
1G33-H0078 VARIABLE SPRING 3" N/A 305-671-102	F-A F1.SP	VT VT-3	1042-15-135	SAT	
1G33-H0205 RIGID GUIDE 4" N/A 305-671-106	F-A F1.G	VT VT-3	1042-15-139	SAT	NONE
1G33-H1007 RIGID GUIDE 2" N/A 305-671-107	F-A F1.G	VT VT-3	1042-15-136	SAT	
1G33-H1008 RIGID GUIDE 2" N/A 305-671-105	F-A F1.G	VT VT-3	1042-15-137	SAT	
1G41-H0022 RIGID GUIDE 10" N/A 305-655-117	F-A F3.Gs	VT VT-2	1Q800-15-039	SAT	N/A
1G41-H0024 RIGID GUIDE 10" N/A 305-655-117	F-A F3.Gs	VT VT-3	1Q800-15-038	SAT	N/A
1G41-H0025 MECHANICAL SNUBBER 10" N/A 305-655-117	F-A F3.SN	VT VT-3	1Q800-15-040	SAT	N/A

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category		Exam Report No.	Status	Remarks
	ASME Item No.	Exam Method			
1G41-H0174 RIGID GUIDE 10" N/A 305-655-112	F-A F3.G	VT VT-3	1Q800-15-034	SAT	N/A
1N22-H0126 MECHANICAL SNUBBER 2" N/A 305-121-102	F-A F1.SN	VT VT-3	1Q800-15-056	SAT	PSI of replaced snubber
1N22-H0127 MECHANICAL SNUBBER 2" N/A 305-121-102	F-A F1.SN	VT VT-3	1Q800-15-057	SAT	PSI of replaced snubber
1N27-H0006 HYDRAULIC SNUBBER 20" N/A 305-082-102	F-A F1.SN	VT VT-3	1Q800-15-053	SAT	PSI of replaced snubber
1N27-H0007 HYDRAULIC SNUBBER 20" N/A 305-082-102	F-A F1.SN	VT VT-3	1Q800-15-054	SAT	PSI of replaced snubber
1P45-H0148 RIGID GUIDE 16" N/A 305-792-104	F-A F3.G	VT VT-3	1Q800-15-037	SAT	N/A
1P45-H0149 RIGID GUIDE 16" N/A 305-792-104	F-A F3.G	VT VT-3	1Q800-15-035	SAT	N/A
1P45-H0158 RIGID STRUT 16" N/A 305-792-104	F-A F3.STm	VT VT-3	1Q800-15-029	SAT	NONE
1P45-H0292 MECHANICAL SNUBBER 16" N/A 305-792-104	F-A F3.SN	VT VT-3	1Q800-15-058	SAT	CR-2015-06618 for missed VT-3
1P45-H0354 RIGID GUIDE 16" N/A 305-792-103	F-A F3.G	VT VT-3	1Q800-15-036	SAT	N/A
1P45-H0702 RIGID GUIDE (WA) 8" N/A 305-791-104	F-A F3.Gs	VT VT-3	1Q800-15-059	SAT	Reworked per CR 2015-04946

ID of Component Examined			ASME Category	Exam Method	Exam Report No.	Status	Remarks
Description of Component	ASME Item No.	ASME Item No.					
Size - Sched. - ISI Dwg. No.							
1P45-H0702-WA INTEGRAL ATTACHMENT RIGID GUIDE 8" N/A 305-791-104	D-A D1.20		VT VT-1	1Q800-15-030	SAT	None	
1P45-H0703 RIGID GUIDE 8" N/A 305-791-112	F-A F3.Gs		VT VT-3	1Q800-15-060	SAT	Rework per CR 2015-05471/05604	
1T23-006-E EXTERIOR EL 610-664 AZ 90-180 (5%) N/A N/A 305-503-128	E-A E1.11		VT VT-3M	1042-15-138	SAT		

Table Notes:

1. Status codes are "SAT", "UNSAT" or "EVAL" for visual exams. For ultrasonic exams they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications.
2. The above exam listing is all the preservice exams that were performed during Cycle 14 or RFO14 due to repair/replacement activities.

APPENDIX B
"CYCLE 15 & 1R15 NIS-2/NR-1 FORMS"
INSERVICE INSPECTION SUMMARY REPORT
FOR
PERRY NUCLEAR POWER PLANT
(PNPP)
UNIT 1

1B13-05B

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/22/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 5

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200261110
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B13, REACTOR AND INTERNALS

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1971 Edition
NAME/SECTION/DIVISION/CLASS
WINTER, 1972 Addenda Code Case(s) * 1332-6, 1620, 1557-1, 1141-1

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION, 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
REACTOR VESSEL	GENERAL ELECTRIC	T49	15	N/A	1975	REPLACEMENT	YES

7. Description of Work: PY-1B13D0001. REPLACED REACTOR VESSEL DRY TUBES AS DETAILED IN THE REMARKS SECTION.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1037 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED LPRM DRY TUBES 08-41 WITH S/N 141021LZ AND 08-49 WITH S/N 04S85851.
REPLACED SRM DRY TUBES 16-21 WITH S/N 04S84952, 16-45 WITH S/N 15B0019K, 40-21 WITH S/N
15B0019I, AND 40-45 WITH S/N 15B0019J.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
Date 5/22, 20 15 Signed FENOC-PNPP Tobias J. Kostner SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSR Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/16, 20 15 Signed Steven Hoffmann Commissions 14337ANI 0H117
(Inspector) (National Board (include endorsement), and jurisdiction, and no.)

1B13-058
Sheet 2 of 5

PRODUCTION ORDER NUMBER: 19739871

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

Pg. 1 of 2

1. Manufactured and certified by GE Reuter-Stokes, Inc., 8499 Darrow Road, Twinsburg, Ohio 44087
(Name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp. P.O. Box 6100, Johnstown, PA 15907
(Name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 70 Center Road Perry, OH 44081
(Name and address)

4. Type: RS-E5-1210-201 N/A N/A N/A 2014
(ASME Code) (Part type, no.) (Design change) (CRS) (Year built)

5. ASME Code, Section III, Division 1: 1974 Winter 1974 1 N/A
(Edition) (Effective date) (Am) (Code Case no)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(Yes)

7. Remarks: Certified Design Specification CDS-C-272A8152-1 Rev. 0
Certified Design Report CDR-C-5253-23 Rev. 0
On File at GE Reuter-Stokes, Inc.

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 141021LZ	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 PSIG psi. Temp. Vessel 575°F Seal 300°F Hydro test pressure 1975 PSIG at temp. 71°F
(When applicable)

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

02/10

PRODUCTION ORDER NUMBER: 19739871

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

Certificate Holder's Serial Nos N/A through N/A

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>Bill A. Bolgos</u> <small>(where applicable)</small>	P.E. State <u>CA</u>	Reg. no. <u>MF348</u>
Design report* certified by	<u>Robert Scott Betschman</u> <small>(if not applicable)</small>	P.E. State <u>OH</u>	Reg. no. <u>E-56133</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>Assemblies</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No. <u>JD-2703</u>		Expires <u>September 16, 2015</u>	
Date <u>November 22, 2014</u>	Name <u>GE Reuter-Stokes, Inc.</u> <small>(NPT Certificate Holder)</small>	Signed <u>David Johnson</u> <small>(Inspector)</small>	
CERTIFICATE OF INSPECTION			
I, the undersigned, holding a valid commission issued by the 'National Board' of Boiler and Pressure Vessel Inspectors and employed by <u>H.S.B. Global Standards</u> of <u>HARTFORD, CT</u> have inspected these items described in this Data Report on <u>Nov 12, 2014</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>11/12/14</u>	Signed <u>[Signature]</u> <small>(Authorized Inspector)</small>	Commissions <u>13169AN 01667</u> <small>(NPT B.I. Cert. no. (license no.) and state or prov. seal no.)</small>	

1B13-058
Sheet 3 of 5

PRODUCTION ORDER NUMBER: 19771917

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

Pg. 1 of 2

1. Manufactured and certified by GE Reuter-Stokes, Inc., 8499 Darrow Road, Twinsburg, Ohio 44087
(Name and address of NPT Certificate Holder)

2. Manufactured for Perry First Energy Corp 10 Center Road PNPP TEC, Perry, OH 44081
(Name and address of Purchaser)

3. Location of installation Perry First Energy Corp 10 Center Road PNPP TEC, Perry, OH 44081
(Name and address)

4. Type: RS-ES-1500-217 N/A N/A N/A 2015
(Drawing no.) (Small type nos.) (Design drawing ID) (CRN) (Year built)

5. ASME Code, Section III, Division 1: 1974 Winter 1974 1 N/A
(Edition) (Addenda date) (Class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(Yes)

7. Remarks: Certified Design Specification CDS-C-5600-7-1 Rev. 0
Certified Design Report CDR-C-5600-79 Rev. 0
On File at GE Reuter-Stokes, Inc.

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 15B0019	N/A	(26)	
(2) 15B0019K	N/A	(27)	
(3) 15B0019L	N/A	(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1250 PSIG psi. Temp. Vessel 575°F. Seal 300°F. Hydro test pressure 1950 PSIG at temp. 71°F
(When applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is #1 & 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.

(07/10)

PRODUCTION ORDER NUMBER: 19771917

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

Certificate Holder's Serial Nos. N/A through N/A

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>Bill A. Balazs</u> <small>(when applicable)</small>	P.E. State <u>CA</u>	Reg. no. <u>MF348</u>
Design report* certified by	<u>David F. Ryzner</u> <small>(when applicable)</small>	P.E. State <u>OH</u>	Reg. no. <u>PE-74926</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>Assemblies</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	<u>N-2703</u>	Expires	<u>September 16, 2015</u>
Date	<u>February 26, 2015</u>	Name	<u>GE Reuter-Stokes, Inc.</u> Signed <u>David Balazs III</u> <small>(NPT Certificate Holder)</small>
CERTIFICATE OF INSPECTION			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>H.S.B. Global Standards</u> of <u>HARTFORD, CT</u> have inspected these items described in this Data Report on <u>FEB 28, 2015</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>2/28/15</u>	Signed	<u>[Signature]</u> Commissions <u>13169AA OH 667</u> <small>(Authorized Inspector)</small>

1B13-058
Sheet 4 of 5

WORK ORDER NUMBER: 17916916

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

Pg. 1 of 2

1. Manufactured and certified by GE Reuter-Stokes, Inc., 8499 Darrow Road, Twinsburg, Ohio 44087
(Name and address of NPT Certificate Holder)

2. Manufactured for First Energy
(Name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant, 10 Center Road, Perry, OH 44081
(Name and address)

4. Type: RS-RS-1500-217 N/A N/A N/A 2007
(Drawing no.) (part spec. no.) (single string) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1974 Winter 1974 1 N/A
(edition) (last Serial date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(part)

7. Remarks: Certified Design Specification CDS-C-5600-7-1 Rev. 0
Certified Design Report CDR-C-5600-47 Rev. 0
On File at GE Reuter-Stokes, Inc.

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 04584952	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

Design pressure 1250 PSIG psi. Temp. Vessel 575°F. Seal 300°F. Hydro. test pressure 1675 PSIG at temp. 70°F.
(when applicable)

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

(12/88)

This form (E20049) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.
Reprints (7/91)

WORK ORDER NUMBER: 17916818

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

Certificate Holder's Serial Nos. N/A through N/A

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>BILL A. Balazs</u> <small>(when applicable)</small>	P.E. State <u>CA</u>	Reg. no. <u>MF348</u>
Design report* certified by	<u>Ahmed I. Sabet</u> <small>(when applicable)</small>	P.E. State <u>NY</u>	Reg. no. <u>071638</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>Assemblies</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	<u>N-2703</u>	Expires	<u>September 16, 2009</u>
Date	<u>4/5/07</u>	Name	<u>GE Reuter-Stokes, Inc.</u> Signed <u>[Signature]</u> <small>(NPT Certificate Holder)</small> <small>(printed and represented as)</small>
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>OHIO</u> and employed by <u>H.S.B. CT</u> of <u>HARTFORD, CT</u> have inspected these items described in this Data Report on <u>04-05-2007</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>04-05-2007</u>	Signed	<u>[Signature]</u> Commissions <u>NB12600-RBN CH 587</u> <small>(Authorized Inspector)</small> <small>(NBTB (incl. endorsements) and state or prov. and no.)</small>

1813-058
Sheet 5 of 5

WORK ORDER NUMBER: 13710

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

Pg. 1 of 2

1. Manufactured and certified by GE Reuter-Stokes, Inc., 8499 Darrow Road, Twinsburg, Ohio 44087
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy
(name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 10 Center Road Perry, OH 44081
(name and address)

4. Type: RS-E5-1210-201 N/A N/A N/A 2005
(drawing no.) (part spec. no.) (name of strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1974 Winter 1974 1 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(ref.)

7. Remarks: Certified Design Specification CDS-C-272A6152-1
Certified Design Report CDR-C-5253-08
On File at GE Reuter-Stokes, Inc.

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	04S85851	(26)	
(2)	04S85852	(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

Design pressure 1250 PSIG psi. Temp. Vessel 575°F. Seal 300°F. Hydro. test pressure 1875 PSIG at temp. 70°F.
(where applicable)

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

(12/89)

This form (E30045) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

WORK ORDER NUMBER: 13710

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

Certificate Holder's Serial Nos. N/A through N/A

Report (7/99)

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>Bill A. Balazs</u> <small>(when applicable)</small>	P.E. State <u>CA</u>	Reg. no. <u>MF348</u>
Design report* certified by	<u>Ahmed I. Sabet</u> <small>(when applicable)</small>	P.E. State <u>NY</u>	Reg. no. <u>071638</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>Assemblies</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No. <u>N-2703</u>		Expires <u>September 16, 2006</u>	
Date <u>2/17/05</u>	Name <u>GE Reiter-Stokes, Inc.</u> <small>(NPT Certificate Holder)</small>	Signed <u>[Signature]</u> <small>(authorized representative)</small>	
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>OHIO</u> and employed by <u>H.S.B. CT</u> of <u>HARTFORD, CT</u> have inspected these items described in this Date Report on <u>2/17/05</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 Date 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>2/17/05</u>	Signed <u>[Signature]</u> <small>(Authorized Inspector)</small>	Commission <u>NB 10602 N, NS Ohio 430</u> <small>(NPT No. (incl. extension-20) and State or Prov. and no.)</small>	

1B13-059

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/26/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 36

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 SEE SUPPLEMENT 1
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1B13, REACTOR AND INTERNALS

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B13	64077	N/A	1984	REPLACEMENT	YES

7. Description of Work: 1B13D0008, WORKED 20 CONTROL ROD DRIVE MECHANISMS (CRDM) AND REPLACED 1" CAP SCREWS (8 EA PER DRIVE). SEE SUPPLEMENTAL SHEET FOR DETAILS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: SEE SUPPLEMENTAL SHEET FOR DETAILS.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 6/26, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 15 Signed [Signature] Commissions 14531A01 OH1199
(Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B13-059

**SUPPLEMENTAL SHEET FOR NIS-2/NR-1
OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/26/2015
76 South Main Street, Akron OH 44308 Sheet 2 of 36
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 SEE CHART BELOW
(Repair Org. P.O. No., etc.)
3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017
4. Identification of System: 1B13: REACTOR AND INTERNALS
5. (a) Applicable Construction Code: ASME SECTION III DIV 1 CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728,1644-4,N-272
- (b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)
- (c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)
- (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)
- (e) Design Responsibilities FENOC
6. Identification of Components Repaired, or Replacement Components

WORK ORDER	CORE LOC.	CRDM (REMOVED)	CRDM (NEW)	BOLT H/N	WORK ORDER	CORE LOC.	CRDM (REMOVED)	CRDM (NEW)	BOLT H/N
200486653	58-23	A5679	A4685	8192223	200387790	06-23	A4051	A5229	22267
200390361	26-27	A2288	A4646	22267	200390363	38-03	A5711	A5426	22267
200583370	26-39	A4450	A4416	8192223	200387793	10-43	A5682	A4666	22267
200486854	06-15	REINSTALLED		8192223	200319434	14-43	A4252	A4167	8192223
200578404	46-19	A4729	A4009	8192223	200326643	30-11	A4752	A5345	22267
200319790	42-23	A2752	A4390	8192223	200387777	30-39	A6486	A5114	22267
200319492	34-39	A4144	A5367	8192223	200583371	38-31	A4843	A5225	8192223
200486868	06-43	A5631	A4158	8192223	200587325	30-31	REINSTALLED		8192223
200319779	22-15	A4318	A4179	8192223	200614454	46-55	A5586	A4479	O2T3 (4)
200326640	14-31	A4080	A5713	22267 (2) 34751 (6)					8192223 (4)

1B13-059
SHEET 3 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

- 1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear component)
- 2. Identification-Certificate Holder's Serial No. of Part A4685 Nat'l Ed. No. _____
- (a) Constructed According to Drawing No. 768E334G001 Drawing Prepared by D. L. Paterson
- (b) Description of Part Inspected Control Rod Drive, Model #7RDE144DG001
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. N207 1361-2 Class I
- 1. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J. Ottredunni
(NPT Certificate Holder)
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A5356, Rev. 2

Stress analysis report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 3345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 3345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by DEPARTMENT OF LABOR of State of North Carolina have inspected the part of a pressure vessel described in this Particular Data Report on 7/23 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/23 19 81 N.C. 723,PAJWC1766, OHIO
E.S. Skerill Inspector's Signature Commission National Board, State, Province and No. 00564

* Supplementary sheets in form of lists, schedules or drawings may be used provided they are a 5 1/2" x 8 1/2" size. Information on items not in this form should be attached to this report, and the sheet number and number of sheets in the list should be given. (Continued)
110771 This form E00040 may be obtained from the Cross-Section ASME, 330 E. 47th St., New York, N.Y. 10017

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (Top, bottom, edge) Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Slope to Press. (Conv. or Conc.) _____
(a) _____
(b) _____
If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

7. Jacket Closure: _____
(Describe as edge and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 375 °F of _____
Drop Weight _____
Charpy Impact _____
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____ (Welded, Bolted)
(Kind & Spec. No.) (Subject to pressure)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or less _____ Number _____ Type _____ (Std. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Slope to Press. (Conv. or Conc.) _____
(a) Top, bottom, ends _____
(b) Channel _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F of _____
Drop Weight _____
Charpy Impact _____
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose Inlet, Outlet, Drain	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Legs _____ Lugs _____ Dimer _____ Attached _____
Yes or No? Number? Number? Number? Deter. by _____
_____ _____ _____ _____

¹ If Padweld Heat-Treated.
² List also pressure or working pressure with operating temperature when applicable

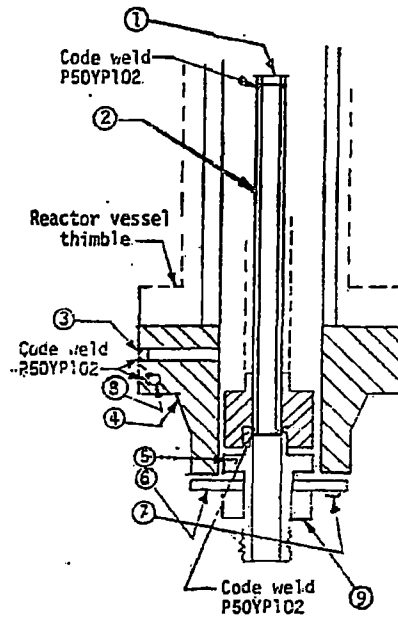
Sheet 2 of 2

1813-059
SHEET 4 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBC)
(Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part A4685 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
- (c) Applicable ASME Codes, Section III, Edition 1974, Addenda date W'75, Case No. N207, 1361-2 Class 1

1. Cap 166B9274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-36
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.
9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.



CONTROL ROD DRIVE
DWG - 768E534

D. 565

Sheet 1 of 2 1B13-059
SHEET 5 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

- 1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Place and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for component)
- 2. Identification-Certificate Holder's Serial No. of Part A4646 Nat'l Bd. No. _____
- (c) Constructed According to Drawing No. 768R534G001 Drawing Prepared by D. L. Peterson
- (d) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
- (e) Applicable ASME Code Section III, Edition 1974, Addenda date N'75, Case No. N20/1361-2 Class 1
- 3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specifications and Stress Report are not the responsibility of the NPT Certificate Holder for part. An NPT Certificate Holder for appurtenance is responsible for furnishing a separate Design Specifications and Stress Report if the appurtenance is not included in the component Design Specifications and Stress Report.)

Date 7/7 19 81 Signed GE, NEPD-WMO By J. Ottoboni
(NPT Certificate Holder)
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT Y-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMO-OA, Castle Hayne Rd., Wilmington, N.C.
22A5536, Rev. 2
Stress analysis report on file at: GE, NEPD, San Jose, Calif.
22A4912, Rev. 2
Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina, and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/7 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7 19 81
E. D. Spivey
Inspector's Signature
N.C. 723.PA.WC1766, OHIO
National Board, State, Province and No.

* Supplemental sheets in form of data, sketches or drawings only to meet provisions (1) thru (4) of 117, (2) information in items 1(a) & (b) of this form should be furnished on each sheet, and (3) each sheet in accordance with number of sheets specified in item 5. "Remarks".
(10/77) This form (E000-40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

QC369

FORM N-2 (bar-L)

Items 4-8 Incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)

(a) _____
(b) _____
If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe as eggs and weld, dms, etc. if describe dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches _____ Number _____ Type _____
(30. or U)

Items 11-14 Incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends _____
(b) Channel _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Threats, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Yes or No? _____ Legs _____ Number _____ Legs _____ Number _____ Other _____ Attached _____ Where to Mount _____

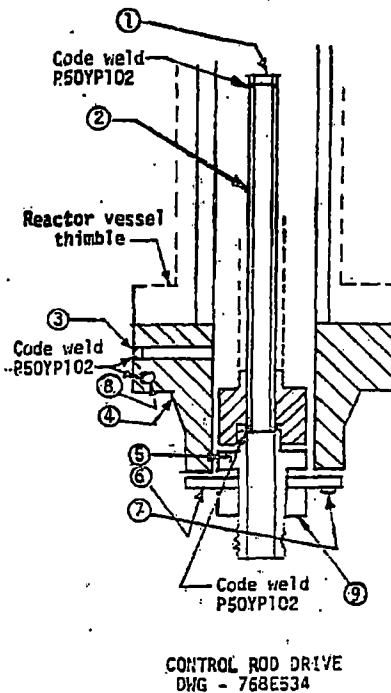
¹ If Postweld Heat Treatment.
² List other stresses or stresses produced with complete description where applicable.

1813-059
SHEET 6 of 36

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear components)
2. Identification-Certificate Holder's Serial No. of Part A4646 Nat'l Bd. No. _____
- (c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson
- (d) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
- (e) Applicable ASME Codes Section III, Edition 1974, Addenda date W'75 Case No. N207 1361-2 Class 1

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16699313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
5. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.
9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.



Sheet 1 of 2

1B13-059
Sheet 7 of 36

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by: General Electric Company, Cassle Bayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for: General Electric Company, San Jose, California (GEBC)
(Name and address of NPT Certificate Holder for Commercial Reactor Components)

2. Identification Certificate Holder's Serial No. of Part: 44416 Part No. _____

(a) Constructed According to Drawing No. 768Z534G001 Drawing Prepared by: D. L. Peterson

(b) Description of Part Inspected: Control Rod Drive, Model #7RDB144PG001

(c) Applicable ASME Code Section III, Edition: 1974 Addenda date: N75 Case No. 120/1361-2 Class: 1

3. Remarks: Standard part for use with Reactor. Hydroscatically tested at 1820 psi.
(List description of defect for each component not designed)

* Total number of sheets = 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
The applicable Design Specification and Stress Report are (a) the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for components is responsible for furnishing a complete Design Specification and Stress Report if the documents are not included in the Certificate Holder's Records and Stress Reports.

Date: 5/12 19 81 Signed: GE, NEPD-RD-QA by: J. Ettrich
(NPT Certificate Holder)

Certificate of Authorization Expires: June 16, 1981 Certificate of Authorization No. NPT-N-1853

CERTIFICATION OF DESIGN FOR APPURTENANCE (Part applicable)

Design information on file as: GE, NEPD-RD-QA, Cassle Bayne Rd., Wilmington, N.C.

22A5556, Rev. 1

Stress analysis report on file as: GE, NEPD-RD-QA, Cassle Bayne Rd., Wilmington, N.C.

22A4912, Rev. 2

Design specifications certified by: B. N. Sridhar Dist. Eng. No. Call 15 Reg. No. 16345

Stress analysis report certified by: B. N. Sridhar Dist. Eng. No. Call 15 Reg. No. 16345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of the State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 5/12 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, except that the part described in this Partial Data Report, Part Number, Call 15, Inspected by Call 15, shall be liable for any damage or any personal injury, temporary damage or a loss of any kind arising from or connected with this inspection.

Date: 5/12 19 81 Inspector's Signature: E. B. Merrill Commission: N.C. 723.PA.WD1766; OHIO

* Supplemental sheets in form of lists, sketches or drawings may be made provided they are in 8 1/2" x 11" (210 x 279 mm) size and are submitted to ASME for filing.
Data Report is prepared for each part and the seal does not duplicate the number of items inspected or listed. * 700000

FORM N-7 (back)

Items 4-6 and 11-14 to be completed for simple shell vessels, sections of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Allowance _____ in. Diameter _____ in. Length _____ ft. _____ in.

5. Crown: Long _____ H.T. _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T. _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Crown _____ Elliptical _____ Conical _____ Hemispherical _____ Flat _____ Side to Shell _____
 (Type, bottom, ends) Thickness _____ Radius _____ Skirt _____ Edge _____ Area Area _____ Radius _____ Diameter _____ (Crown or Side)

(a) _____
 (b) _____
 If removable, bolt used (a) _____ (b) _____ Other fastening _____ (Describe or attach sketch)

7. Jacket Cladding: _____
 (Describe as open or closed, hot, etc. If heavy cladding, if bolted, describe as such)

8. Design pressure: _____ psia _____ psf _____ CF
 Drop Weight _____ lb
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items 9 and 10 to be completed for pipe sections.

9. Tube Sheet: Stationary Material _____ Dia. _____ Thickness _____ in. Attachment _____
 (Must be Spec. Mat.) (Subject to pressure) (Welding method)

Floating Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ in. Number _____ Type _____
 (Specify U)

Items 11-14 to be completed for inner chambers of jacketed vessels or chambers of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Allowance _____ in. Diameter _____ in. Length _____ ft. _____ in.

12. Crown: Long _____ H.T. _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T. _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Crown _____ Elliptical _____ Conical _____ Hemispherical _____ Flat _____ Side to Shell _____
 (Type, bottom, ends) Thickness _____ Radius _____ Skirt _____ Edge _____ Area Area _____ Radius _____ Diameter _____ (Crown or Side)

(a) Top, bottom, ends _____
 (b) Crown _____
 If removable, bolt used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)

14. Design pressure: _____ psia _____ psf _____ CF
 Drop Weight _____ lb
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve: Orifice Number _____ Size _____ Location _____

16. Nozzles:
 Purpose (Inlet, Outlet, Drain) _____ Number _____ Dia. or Size _____ Type _____ Material _____ Thickness _____ Attachment Material _____ How Attached _____

17. Inspection Hatches: No. _____ Size _____ Location _____
 Openings: Hatches, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ (Type or No.) _____ Legs _____ (Number) _____ Other _____ (Describe) _____ Attached _____ (Where it shows)

1. If pressure non-fractured.
 2. Use other material or external position with inspection temperature when applicable.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

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Sheet 8 of 30

(a) Manufactured by: General Electric Company, Charlie Bayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for: General Electric Company, San Jose, California (NEBC)
(Name and address of N Certificate Holder or Original Nuclear Customer)

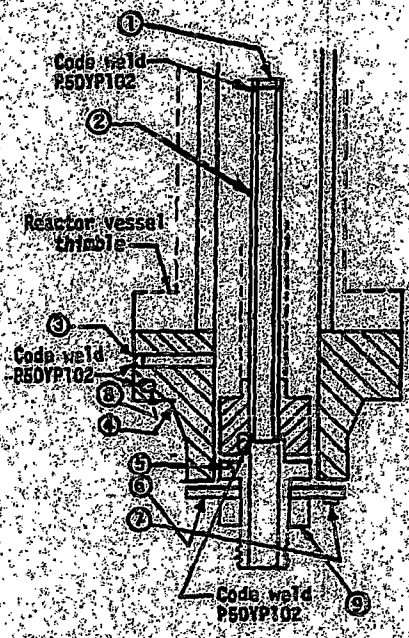
(c) Identification Certificate Holder's Serial No. of Part: A4415 Part 1 S/N: _____

(d) Constructed According to Drawing No. 768E534G001 Drawing Prepared by: D. L. Peterson

(e) Description of Part Inspected: Control Rod Drive, Model J7RDRI440G001

(f) Applicable ASME Code Section III, Edition: 1974, Addenda: N-75, Case No. N207, Class: 1

1. Cap 166B9274P1
(167A2343)
SA182 - F316
3/8" thick x 1 1/16" OD
2. Indicator Pipe 166B9313P1
SA312-TP316
3/4" sch. 40 stainless pipe
0.113" wall thickness
1.065" max. dia.
3. Plug 159A1176P1
SA182-F304
1/4" thick x 0.812" OD
4. Flange 919D610P1 (719E474)
SA182-F304
3.37" thick x 9 5/8" OD
neck 1 1/16" thick x 5.0" OD
2.875" ID
5. Base 137C531P1
XM-19 ASME SA479
3.0" OD x 1.884" ID
6. Ring Flange 17485T22P2
SA182-F304
1" thick x 5.0" OD x 1.75" ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2" dia. on 4 1/8" bolt circle
8. Plug 175A7961P1
SA182-F304
0.38" thick x 1.307" dia.



CONTROL ROD DRIVE
Dwg. - 768E534

9. Nut 137C5936P1
XM-19 SA479
1.38" thick x 2.62" dia.

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SHEET 9 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

- 1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of NPT Certificate Holder for completed nuclear installations)
- 2. Identification-Certificate Holder's Serial No. of Part A4479 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda W75, Case No. N20/1361-2 Class 1
- 3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Detail description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 7/23 1981 Signed GE, NEPD-WMD-QA By J. Ostrudman
(NPT Certificate Holder)

Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2
 Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A4912, Rev. 2
 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
 Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/23 1981 N.C. 723.PA.WC1766, OHIO
E.D. Sheppard Commission National Board, State, Province and No.
Inspector's Signature

*Supplemental sheets in form N-2 (Info. furnished or drawings that do not provide all data of the "N-2" information as shown in the "N-2" form) is required to this form. (See also the "N-2" form and instructions for use.)
 (10/77) This form (E-2000) may be obtained from the Cross Dept., ASME, 36 E. 57th St., New York, N.Y. 10017

00265

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, sections of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)
(Top, bottom, ends)

(a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe or sketch and weld, etc. If bolt give dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F Drop Weight _____ Charpy Impact _____
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

10. Tubes: Material _____ O.D. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)
(Top, bottom, ends)
 (b) Channel _____
 If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____ Charpy Impact _____
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose: Inlet, Outlet, Drain	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
 Openings: Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Legs _____ Joints _____
(See 17 No.) (Number) (Number) (Number) (Number) (Number) (Number) (Number) (Number)

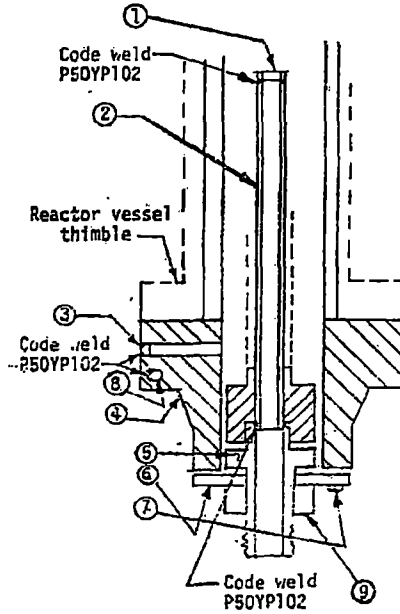
¹ If Postweld Heat-Treatment.
² List other internal or external pressures with corresponding temperatures when applicable.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

Sheet - 01 -
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SHEET 10 of 36

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBC)
(Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part A4479 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No: 768E534G001 Drawing Prepared by D. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda due W'75, Case No. N207
1361-2 Class 1

1. Cap 166B9274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 915D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137CE311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-86
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.
9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.



CONTROL ROD DRIVE
DWG - 768E534

00266

1013-059
SHEET 11 of 36

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

- 1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear component)
- 2. Identification-Certificate Holder's Serial No. of Part A4009 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No. 768K534G001 Drawing Prepared by D. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #76DBIA44G001
- (c) Applicable ASME Code Section III, Edition 1974, Addenda date W'75 Case No. N20/1361-2 Class I
- 3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the examination made in this report was correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specifications and Stress Report are and the responsibility of the NPT Certificate Holder for DESIGN. All NPT Certificate Holder for appurtenances is responsible for furnishing a complete Design Specifications and Stress Report if the appurtenance is not included in the component Design Specifications and Stress Report.)

Date 7/7 19 81 Signed GE, NEPD-NEO *J. Ottoboni*
NPT Certificate Holder
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-NEO-0A, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2
Stress analysis report on file at GE, NEPD, San Jose, Calif.
22A4912, Rev. 2
Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
Stress analysis reports certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/7 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the inspector nor his employer endorses any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/7 19 81 E. P. Sherill N.C. 723.PA.WC1766, OHIO
Inspector's Signature Commission National Board, State, Province and No.

*Reproduction allowed in form of lists, abstracts or drawings may be used provided (1) size is 4 1/4" x 11", (2) information is placed on this form (except to extend overall size), and (3) each user is required to report to the ASME (1) name of the user, (2) date of use, and (3) the name of the user's organization.
This form (E800-40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

00158

FORM N-3 (back)

Items 4-6 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specifications)

5. Seams Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Flange (Class. or Code)
 (a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____
(Describe or attach sketch)

7. Jacket Closure _____
(Describe or attach sketch, etc. etc. if large or distinctive, if bolted, describe or sketch)

8. Design pressure² _____ psi at _____ °F Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheet Stationary Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to process) (Welded, Bolted)

Floating Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tube Material _____ O.D. _____ in. Thickness _____ in. Number _____ Type _____
(See 10 U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or chambers of heat exchangers.

11. Shell Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specifications)

12. Seams Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Flange (Class. or Code)
 (a) Top, bottom, ends _____
 (b) Chamber _____
 If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number _____ Size _____ Location _____

16. Nozzles

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
 Openings: Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

18. Support Skirt (Yes or No) _____ Lugs (Number) _____ Lugs (Number) _____ Other (Describe) _____ Attached _____
(Show in View)

¹ If Permitted Non-Treated.
² List other material or treatment prepared with characteristic temperature where applicable.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND AFFURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1013-069
SN 68/ 12 of 36

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
(b) Manufactured for General Electric Company, San Jose, California (NEBC)
(Name and address of N Certificate Holder for completed nuclear component)

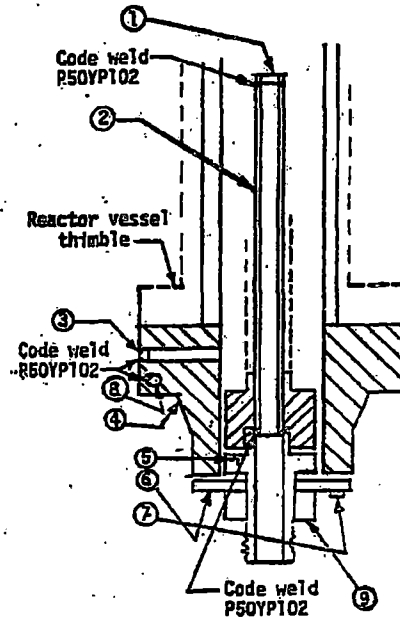
2. Identification-Certificate Holder's Serial No. of Part A4009 NPT Ed. No. _____

(c) Constructed According to Drawing No. 768E536G001 Drawing Prepared by D. L. Patterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDRI44DG001

(c) Applicable ASME Code Section III, Edition 1974, Addenda W75 Case No. N207 1361-2 Class. 1

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16689313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.066 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A796T1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.

00159

1013-059
SHEET 13 of 36

Sheet 1 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

261

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part A4390 Part No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DC001

(c) Applicable ASME Code Section III, Edition 1974, Addenda W'75, Case No. N20/1361-2 Class 1

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 4/18 19 83 Signed GE, NEEG-WMD By J. J. Strudwick
NPT Certificate Holder

Certificate of Authorization Expires State 16, 1984 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at: GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
22A5556, Rev. 2

Stress analysis report on file at: GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 4/18 19 83 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4/18 19 83 Commissions N.C. 723,PAWC1766, OHIO
Inspector's Signature E. J. Shevill National Board, State, Province and No. _____

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) they are 8 1/2" x 11", (2) information in items 1-3 on this Data Report is repeated on each sheet, and (3) each sheet is numbered and number of sheets is reflected in item 3. "Remarks".

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T. _____ R.T. _____ Efficiency _____ %

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Girth _____ H.T. _____ R.T. _____ No. of Courses _____
Location _____ Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apert. Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)

(a) _____
(b) _____

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

7. Jacket Closure: _____ (Describe as edge and weld, bar, etc. If bar give dimensions, if baffled, describe or sketch)

8. Design pressure: _____ psi at _____ 575 °F Drop Weight _____ ft-lb
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Shear: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____ (Welded, Bolted)
(Kind & Spec. No.) (Subject to pressure)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____
10. Tubes: Material _____ O.D. _____ in. Thickness _____ in. or gage. Number _____ Type _____ (Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T. _____ R.T. _____ Efficiency _____ %

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Girth _____ H.T. _____ R.T. _____ No. of Courses _____
Location _____ Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apert. Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends _____
(b) Channel _____

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)

14. Design pressure: _____ psi at _____ °F Drop Weight _____ ft-lb
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Size _____ Location _____

Sheet 2 of 2

1813-054
SHEET 14 of 36
28195

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear component)

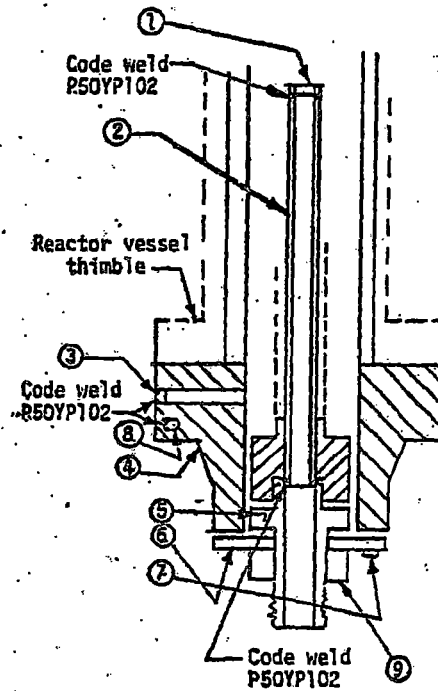
2. Identification-Certificate Holder's Serial No. of Part A4390 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Codes: Section III, Edition 1974, Addenda date W'75 Case No. N207 1361-2 Class 1

1. Cap 166B9274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1178P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.
9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.



CONTROL ROD DRIVE
DWG - 768E534

01376

-1B13-059 SHXZ/ 15 of 36
Sheet 1 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part A5367 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson

(b) Description of Part Inspected Control Rod Drive, Model #78DB144DG001

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75 Case No. N20/1361-2 Class 1

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.

Date 1/31 19 83 Signed GE, NEEG-WMD By J. E. Strickland
(NPT Certificate Holder)

Certificate of Authorization Expires June 16, 1986 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
22A5556, Rev. 2

Stress analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA
22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 1/31 19 83 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 1/31 19 83

E. S. Strickland Inspector's Signature

N.C. 723, PA.WC1766, OHIO Commission National Board, State, Province and No. 01276

*Supplemental sheets in form of data, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in these sheets on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a)								
(b)								

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

7. Jacket Closure: _____
(Describe as open and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure² _____ 1250 _____ psi at _____ 575 _____ °F

Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ in. Number _____ Type _____
(Ss. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends								
(b) Channel								

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F

Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____

Openings: Handholes, No. _____ Size _____ Location _____

Threaded, No. _____ Size _____ Location _____

18. Saddles: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
(Where & How)

Sheet 2 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
 *As required by the Provision of the ASME Code Rules, Section III, Div. 1

78196
 1B13-059
 SHEET 16 of 3

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEBC)
(Name and address of N Certificate Holder for completed nuclear component)

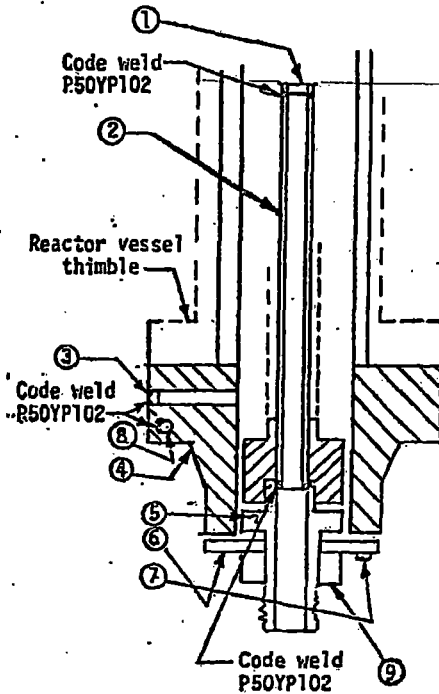
2. Identification-Certificate Holder's Serial No. of Part A5367 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDE144DG001

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. N207 1361-2 Class 1

1. Cap 166B9274P1
 (167A2343)
 SA182 - F316
 3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
 SA312-TP316
 3/4 sch 40-seamless pipe
 0.113 wall thickness
 1.065 max. dia.
3. Plug 159A1176P1
 SA182-F304
 1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
 SA182-F304
 3.37 thick x 9 5/8 OD
 neck 1 1/16 thick x 5.0 OD
 2.875 ID
5. Base 137C5311P1
 XM-19 ASME SA479
 3.0 OD x .884 ID
6. Ring Flange 11485122P2
 SA182-F304
 1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
 SA193-B6
 6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
 SA182-F304
 0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
 DWG - 768E534

9. Nut 137C5934P1
 XM-19 SA479
 1.30 thick x 2.62 dia.

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 7-7705
 12572

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electric Company, San Jose, California (NEBG)
2. Identification-Certificate Holder's Serial No. of Part A4158 Nat'l Bd. No. _____
(c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(d) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
(e) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Code No. N207/N295
1351-2 Class 1
3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

By 8/31/81 GE, NEPD-WMD
NPT Certificate Holder
Certificate of Authorization Expires September 75, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Design information on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2
Stress analysis report on file at GE, NEPD, San Jose, Calif.
22A4912, Rev. 2
Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/31 1981 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this Certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
By 8/31 1981
Ed. Sherrill
Inspector's Signature
Commissions N.C. 723.PA.WC1766; OHIO
National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1-2 on this form report is included on each sheet, and (3) each sheet is numbered and marked as required in item 1, "Remarks".
10/771 This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

00458

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) _____
 (b) _____

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

7. Jacket Closure: _____
(Describe an edge and weld, bar, etc. If large give dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheet: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

_____ Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or gage. Number _____ Type _____
(Bay of U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends _____
 (b) Channel _____

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Outlet (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
 Openings: Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt (Yes or No) _____ Lugs (Number) _____ Legs (Number) _____ Other _____ Attached _____
(Describe) (Where & How)

¹ If Phosphor Heat-Treated.
² List other internal or external pressure with coincident temperature when applicable.

FORM N-3 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1813-059
SHEET 18 of 31

1. Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear component)

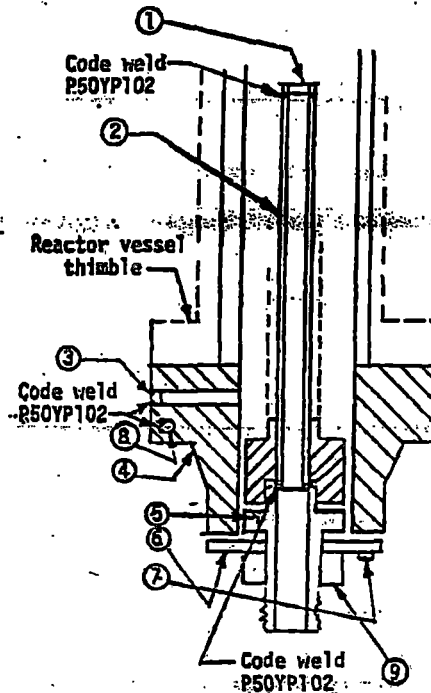
2. Identification-Certificate Holder's Serial No. of Part A4158 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DC001

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75 Case No. N207N295
1361-2 Class 1

1. Cap 166B9274P1
(167A2343)
SA182 - F316
3/8" thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.133 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0-OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-86
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.
9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.



CONTROL ROD DRIVE
DMG - 768E534

00459

1613-059
Sheet 1 of 2
SHEET 19 of 23

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
*As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part A5229 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. I. Paterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Case No. N207 1361-2 Class 1

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 1/31 19 83 Signed GE, NEED-RMD By J. Attwood
(NPT Certificate Holder)

Certificate of Authorization Expires June 16, 1984 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA

22A5556, Rev. 2

Stress analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA

22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 1/31 19 83 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 1/31 19 83 N.C. 723,PA.WC1766, OHIO

Eh. Sherrill Inspector's Signature Commissions National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1-3 on this Data Report is transferred to each sheet, and (3) each sheet is identified and numbered as provided in item 3, "Remarks".

00207

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location (Top, bottom, ends)	Thickness	Crown Radius	Knurled Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flare Diameter	Side to Press. (Conv. or Conc.)
(a) _____	_____	_____	_____	_____	_____	_____	_____	_____
(b) _____	_____	_____	_____	_____	_____	_____	_____	_____

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

7. Jacket Closure: _____
(Describe as cage and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure² _____ 1250 _____ psi at _____ 575 _____ °F

Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches _____ gage. Number _____ Type _____
(Sw. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

Location	Thickness	Crown Radius	Knurled Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flare Diameter	Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends	_____	_____	_____	_____	_____	_____	_____	_____
(b) Channel	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F

Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
_____	_____	_____	_____	_____	_____	_____	_____

17. Inspection Manholes, No. _____ Size _____ Location _____

Openings: Handholes, No. _____ Size _____ Location _____

Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Lugs _____ (Number) _____ Legs _____ (Number) _____ Other _____ (Describe) _____ Attached _____ (Where & How)

Sheet 2 of 2 1B13-069
 SHEET 20 of 24
 28195

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
 As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
 (b) Manufactured for General Electric Company, San Jose, California (NEBC)
(Name and address of N Certificate Holder for completed nuclear component)

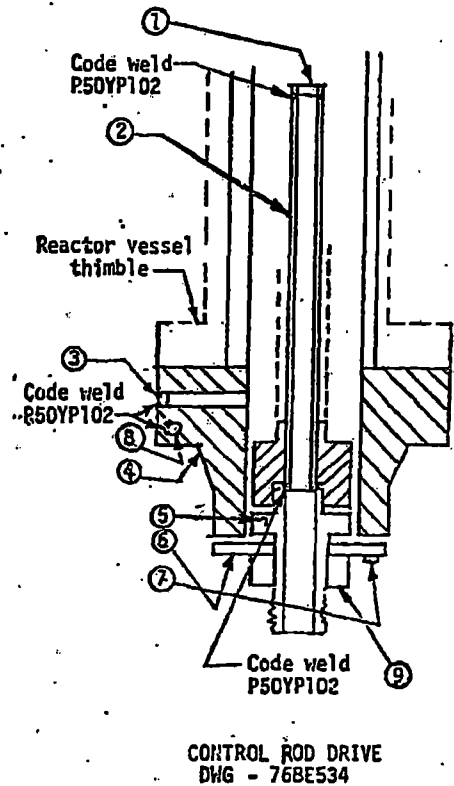
2. Identification-Certificate Holder's Serial No. of Part A5229 Nat'l Ed. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. N207 1361-2 Class 1

1. Cap 166B9274P1
 (167A2343)
 SA182 - F316
 3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
 SA312-TP316
 3/4 sch 40-seamless pipe
 0.113 wall thickness
 1.065 max. dia.
3. Plug 159A1176P1
 SA182-F304
 1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
 SA182-F304
 3.37 thick x 9 5/8 OD
 neck 1 1/16 thick x 5.0 OD
 2.875 ID
5. Base 137C5311P1
 XM-19 ASME SA479
 3.0 OD x .884 ID
6. Ring Flange 11485122P2
 SA182-F304
 1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
 SA193-B6
 6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
 SA182-F304
 0.38 thick x 1.307 dia.
9. Nut 137C5934P1
 XM-19 SA479
 1.30 thick x 2.62 dia.



0208

1B13-059
SHEET 21 of 36

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for contained nuclear component)

2. Identification - Certificate Holder's Serial No. of Part A5713 Nat'l Bd. No. _____

(c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(d) Description of Part Inspected Control Rod Drive, Model #7EDB1A4DG001

(e) Applicable ASME Code Section III, Edition 1974, Addenda W'75, Case No. N207 1361-2 Class 1

3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(List description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 4/24 19 81 Signed GE, NEFD-RD-QA By J. J. [Signature]
(NPT Certificate Holder)

Certificate of Authorization Expires June 16, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable)

Design information on file at GE, NEFD-RD-QA, Castle Hayne Rd., Wilmington, N.C.

22A5556, Rev. 1

Stress analysis report on file at GE, NEFD-RD-QA, Castle Hayne Rd., Wilmington, N.C.

22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina, have inspected the part of a pressure vessel described in this Partial Data Report on 4/24 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4/24 19 81 N.C. 723, PA.WC1766, OHIO

[Signature] Commissions National Board, State, Province and No. 00386

*Fundamental limits in feet of data, attached to drawings may be used provided (1) size is 6" or 2", (2) information is not in this Code or is not on any part, and (3) it is used in accordance with the provisions of paragraph 2. "General"

18/771 This form (E00040) may be obtained from the Order Dept. ASME, 245 E. 47th St., New York, N.Y. 10017

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)
(a) _____
(b) _____
If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 375 °F Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary: Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)
Floating: Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or less Number _____ Type _____
(Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends _____
(b) Channel _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	No.	Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Lugs _____ (Yes or No) _____ (Number) _____ (Number) _____ Other _____ (Describe) Attached _____ (Where & How)

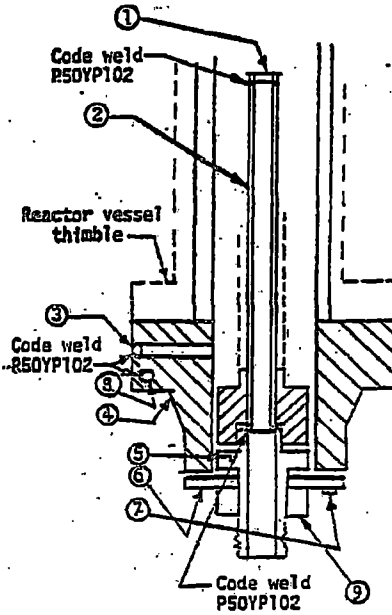
¹ If Postweld Heat-Treated.
² List other internal or external pressure with corresponding temperature when applicable.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1813-059
SHEET 22 of 36

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part A5713 Nat'l Ed. No. _____
(a) Conserved According to Drawing No. 768E536G001 Drawing Prepared by D. L. Fatorson
(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DC001
N207
(c) Applicable ASME Codes Section III, Edition 1976 Addenda date W'75 Case No. 1361-2 Class 1

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16689313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137CS311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-86
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

9. Nut 137CS934P1
XM-19 SA479
1.30 thick x 2.62 dia.

00387

Sheet 1 of 2 **1813-054**
SHEET 23 of 36

FORM N-3 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

- 1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear component)
- 2. Identification-Certificate Holder's Serial No. of Part A4666 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No. 768E3346001 Drawing Prepared by D. L. Paterson
- (b) Description of Part Inspected Control Rod Drive, Model 27RDB144DG001
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. N207/1361-2 Class 1
- 3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 6/12 19 81 Signed GE, NEPD-WMD By J. Strudemann
(NPT Certificate Holder)
Certificate of Authorization Expires June 16, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2
Stress analysis report on file at GE, NEPD, San Jose, Calif.
22A4912, Rev. 2
Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 6/12 19 81, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6/12 19 81
E. S. Merrill Commissions N.C. 723.PA.WC1766, OHIO
Inspector's Signature National Board, State, Province and No.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information is items 1-7 on this Code Report is included on each sheet, and (3) each sheet is made a part of the report by reference to this Code Report.

00686

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long H.T.¹ R.T. Efficiency %

Girth H.T.¹ R.T. No. of Courses

6. Heads: (a) Material T.S. (b) Material T.S.

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Semispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a)								
(b)								

If removable, bolts used Other fastening
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure:
(Describe as open end weld, bar, etc. If baglike disconnection, if belted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F

Drop Weight ft-lb
 Charpy Impact at temp. of °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary, Material Dia. Thickness in. Attachment
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating, Material Dia. Thickness in. Attachment

10. Tubes: Material O.D. in. Thickness inches No. Type
(Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long H.T.¹ R.T. Efficiency %

Girth H.T.¹ R.T. No. of Courses

13. Heads: (a) Material T.S. (b) Material T.S.

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Semispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends								
(b) Channel								

If removable, bolts used (a) (b) (c) Other fastening
(Describe or attach sketch)

14. Design pressure² psi at °F

Drop Weight ft-lb
 Charpy Impact at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. Size Location

Openings: Handholes, No. Size Location

Threaded, No. Size Location

18. Supports: Skirt Lugs Legs Other Attached
(Yes or No) (Number) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.
² List other internal or external pressure with coincident temperature when applicable.

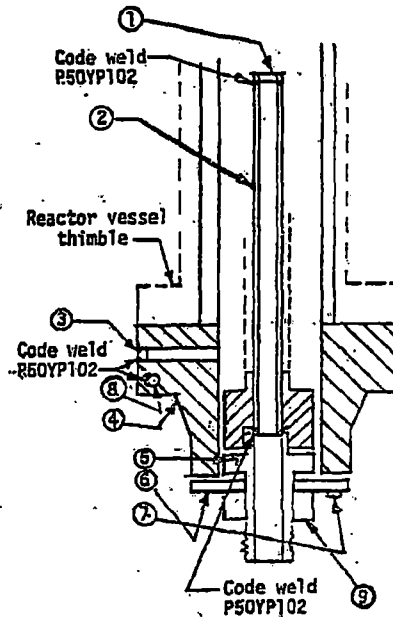
11813-059
SHEET 24 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Ed., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for covered nuclear components)
2. Identification-Certificate Holder's Serial No. of Part A4666 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No. 768E536G001 Drawing Prepared by D. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
- (c) Applicable ASME Code Section III, Edition 1974, Addenda date N75 Case No. 1361-2 Class 1

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16689313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DMG - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.

00687

REEL 13285 / FRAME 757

1B13-059
SHEET 25 of 31

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part A4167 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768Z534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Case No. N207 N295 1361-2 Class 1

3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Dt 8/31 19 81 Signed GE, NEPD-WMD
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMD-DA, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2

Stress analysis report on file at GE, NEPD, San Jose, Calif.
22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/31 19 81, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

E. B. Sherrill 8/31 19 81
Inspector's Signature
N.C. 723.PA.WC1766, OHIO
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) they are 8 1/2" x 11", (2) information on items 1-3 on this form appears in duplicate on every sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks."

00443

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

7. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) _____
 (b) _____

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

7. Jacket Closure: _____
(Describe as gage and weld, bar, etc. If bar give dimension, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F
 Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or gage. Number _____ Type _____
(Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

Shell: Material _____ T.S. _____ Thickness _____ in. Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends _____
 (b) Channel _____

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F
 Drop Weight _____
 Charpy Impact _____ ft-lb
 at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

Inspection Manholes, No. _____ Size _____ Location _____
 Openings: Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
(Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.
² List either internal or external pressure with coincident temperature when applicable.

Sheet 2 of 2
1813-059
SHEET 26 of 31

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear component)

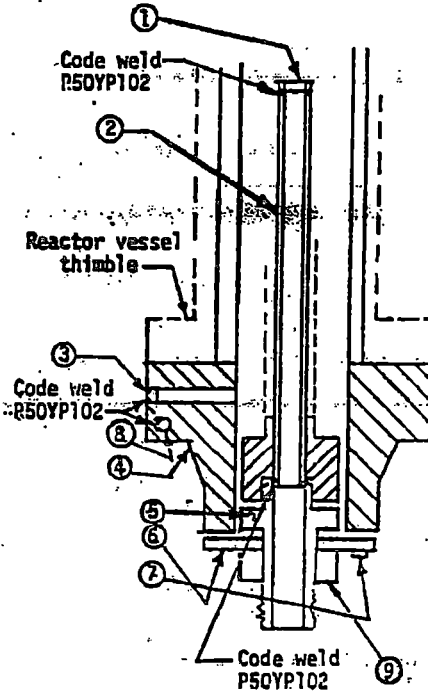
2. Identification-Certificate Holder's Serial No. of Part A4167 Nat'l Ed. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Codes Section III, Edition 1974, Addenda date H'75, Case No. N207 N295
1361-2 Class 1

1. Cap 166B9274P1
(167A2343)
SA182-F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16629313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.413 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11495122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia. **00444**

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES- ^{7B13-059} ^{5186727 of 36}
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electric Company, San Jose, California (NEBG)
2. Identification-Certificate Holder's Serial No. of Part A5345 Nat'l. Bd. No. _____
(c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson
(d) Description of Part Inspected Control Rod Drive, Model 07RDB144DG001
(e) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Case No. N207 1361-2 Class I
3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.

Date 7/23 19 81 Signed GE, NEPD-WMD-QA by J. Altman
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2
Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A4912, Rev. 2
Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 19345
Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 19245

CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind resulting from or connected with this inspection.
Date 7/23 19 81 N.C. 687, PA.WC2711
J. Altman Inspector's Signature Commission National Board, State, Province and Va.

*Supplemental sheets in form of lists, sketches or drawings may be used provided all data of Part 1 is included. All information is items listed on this Data Report is included on each sheet. A 10/77-1 card sheet is included with this form if items of interest are listed. "Revised"
10/771 This form (E00040) may be obtained from the Crowl Dept., ASME, 35 E. 57th St., New York, N.Y. 10017 **00450**

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.

5. Seams: Long H.T. R.T. Efficiency

Girth H.T. R.T. No. of Courses

6. Heads: (a) Material T.S. (b) Material T.S. Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) (b) If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or attach sketch)

7. Jacket Closure: (Describe or attach sketch) Drop Weight Charpy Impact at temp. of

8. Design pressure: 1250 psi at 575 °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheet: Stationary. Material (Kind & Spec. No.) Dia. (Subject to pressure) Thickness in. Attachment (Welded, Bolted)

10. Tubes: Material O.D. in. Thickness in. Attachment Floating. Material Dia. Thickness in. Attachment (Welded, Bolted) Type (Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.

12. Seams: Long H.T. R.T. Efficiency

Girth H.T. R.T. No. of Courses

13. Heads: (a) Material T.S. (b) Material T.S. Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends (b) Channel (c) Other fastening (Describe or attach sketch)

14. Design pressure: psi at °F Drop Weight Charpy Impact at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

Table with 8 columns: Purpose, Inter. (Inlet, Outlet, Drain), Number, Dia. or Size, Type, Material, Thickness, Reinforcement Material, How Attached

17. Inspection Manholes, No. Size Location Openings: Handholes, No. Size Location Threaded, No. Size Location

18. Supports: Skirt Yes or No Legs Number Legs Number Other Attached (Describe or attach sketch)

1 If Postweld Heat-Treated. 2 Test after approval by authorized personnel with competent supervision when applicable.

1B13-059
SHEET 28 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear component)

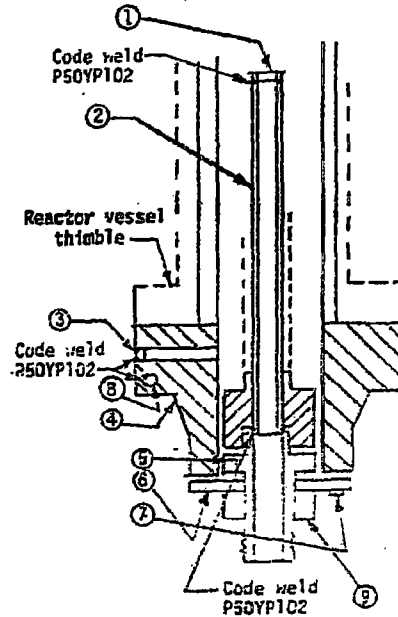
2. Identification-Certificate Holder's Serial No. of Part A5345 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #78DB144DG001

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. N207, 1361-2 Class 1

1. Cap 166B9274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.9 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.9 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.9 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
5 ea. 1/2 dia. on 1 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DMG - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.

GC46D

Sheet 1 of 2 1B13-059
5N66T29 of 36

FORM N-1 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of NPT Certificate Holder for equipment under construction)

2. Identification-Certificate Holder's Serial No. of Part A5114 Part Id. No. _____

(a) Constructed According to Drawing No. 768R534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Case No. N207/1361-2, Class 1

3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which equipment was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 7/7 19 81 Signed GS. NEPD-WMD By J. Ottoboni
NPT Certificate Holder
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMD-0A, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2

Stress analysis report on file at GE, NEPD, San Jose, Calif.
22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/7 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/7 19 81 N.C. 723.PA.WC1766, OHIO
[Signature] Commission National Board, State, Province and No.

* Supplementary sheets in form of 14 1/2" x 21 1/2" drawings or drawings may be filed previously if such a 14" x 21" drawing is filed on file. This sheet is required on this form, and to each page of additional drawings if such is required in such a drawing.
10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

00310A

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specification)

5. Seams: Long _____ H.T. _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T. _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flange Diameter _____ Side to Press. (Conv. or Conc.)
 (Top, bottom, ends)
 (a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Dia., Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe on edge and inside, top, etc., if not give dimensions, if bolted, describe of joints)

8. Design pressure: 1250 psi at 575 °F
 Drop Weight _____
 Charpy Impact _____ ft-lb
 as temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

10. Tubes: Material _____ O.D. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Items 11-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specification)

12. Seams: Long _____ H.T. _____ R.T. _____ Efficiency _____ %
 Girth _____ H.T. _____ R.T. _____ No. of Courses _____

13. Heads as Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location _____ Thickness _____ Crown Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flange Diameter _____ Side to Press. (Conv. or Conc.)
 (Top, bottom, ends)
 (a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Dia., Number) (Describe or attach sketch)

14. Design pressure _____ psi at _____ °F
 Drop Weight _____
 Charpy Impact _____ ft-lb
 as temp. of _____ °F

Items 16-18 to be completed for all vessels where applicable.

16. Jacket as per Section _____ Location _____

Number	Material	Spec. No.	Yield	Tensile	El. Elong.	Reduction of Area	Charpy Impact	Drop Weight

17. Inspection _____
 Operator: _____
 Checked: _____

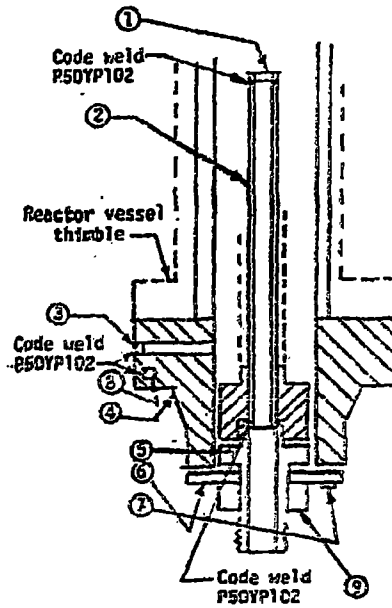
18. Supports _____

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1813-059
SHEET 30 of 36

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBC)
(Name and address of NPT Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part A5114 Part Id. No. _____
- (a) Constructed According to Drawing No. 76825346001 Drawing Prepared by D. L. Paterson
- (b) Description of Part Inspected Control Rod Drive, Model #78DB144DC001
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda H'75 Case No. 1361-2 Class I

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16689313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137CS317P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 7682534

9. Nut 137CS934P1
XM-19 SA479
1.30 thick x 2.62 dia.

3106

1B13-059
SHEET 31 of 36

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of NPT Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part A5225 NAFI Bd. No. _____

(a) Constructed According to Drawing No. 768E334G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Case No. NZ07 1361-2 Class 1

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 7/24 19 81 GE, NEPD-WMD-QA
Certificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A5555, Rev. 2

Stress analysis report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 19345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 19345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/24 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/24 19 81 E. H. Merrill N.C. 723.PA.WC1766, OHIO
Inspector's Signature _____ Commission _____ National Board, State, Province and No. _____

* Recommended sheets in form of lists, sketches or drawings may be used provided all size and "h" or "t" information in items 1-3 of this Data Report is contained on such sheets, and 221-202 is stamped on the drawing and the drawing is prepared in accordance with the ASME Code.

(10/77) This form (EGG-40) may be obtained from the Crow Drill, ASME, 345 E. 47th St., New York, N.Y. 10017

(MINI-100-10074)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Sockets: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location _____ Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)
(Top, bottom, ends) (a) _____ (b) _____
If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

7. Jacket Closure: _____
(Describe on edges and welds, etc. if they vary dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheet: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____ (Welded, Bolted)
Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches or gage. Number _____ Type _____ (St. or V)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____
Location _____ Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends (b) Channeled (c) _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose: Inlet, Outlet, Drain	Number	Dim. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Yes or No _____ Lug _____ Number _____ Legs _____ Number _____ Jitter _____ Attached _____ Where & How: _____

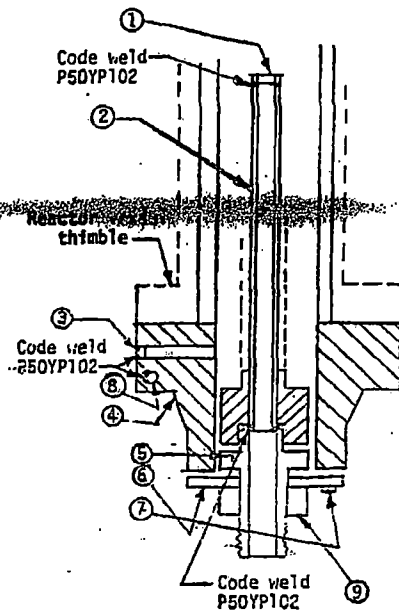
¹ If Postweld Heat-Treated.
² List other stresses or stresses produced with critical components when applicable.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1813-059
SHEET 32 of 36

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear components)
2. Identification-Certificate Holder's Serial No. of Part A5225 Nat'l Bd. No. _____
- (a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DC001
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W75, Case No. N207, 1361-2 Class 1

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16689313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.9 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-86
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.

00625

1B13-059
SHEET 33 of 36

Sheet 1 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* 2819
*As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)

(b) Manufactured for General Electric Company, San Jose, California (NEEG)
(Name and address of N Certificate Holder for completed nuclear components)

2. Identification-Certificate Holder's Serial No. of Part A4179 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson

(b) Description of Part Inspected Control Rod Drive, Model 47RDB144DG001

(c) Applicable ASME Code Section III, Edition 1974, Addenda date W'75, Case No. N20/1361-2 Class 1

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 4/30 19 83 Signed GE, NEFD-WMD By J. E. ...
(NPT Certificate Holder)

Certificate of Authorization Expires June 16, 1984 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA

22A5556, Rev. 2

Stress analysis report on file at GENERAL ELECTRIC CO., SAN JOSE, CALIFORNIA

22A4912, Rev. 2

Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 4/30 1983 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4/30 19 83 Inspector's Signature E. J. ... Commissions N.C. 723, P.A.WC1766, OHIO 2063
National Board, State, Province and No.

*Supplemental sheets in form of plates, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in lines 1-2 on this Data Report is checked on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

(10/77) This form (E000-40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) _____

(b) _____

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

7. Jacket Closure: _____
(Describe as gage and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure² 1250 psi at 575 °F Drop Weight _____ ft-lb Charpy Impact _____ °F at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary, Material _____ Dia. _____ Thickness _____ in. Attachment (Welded, Bolted)
(Kind & Spec. No.) (Subject to pressure)

Floating, Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ inches Number _____ Type _____
(Str. or D)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends _____

(b) Channel _____

If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____ ft-lb Charpy Impact _____ °F at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____

Openings: Handholes, No. _____ Size _____ Location _____

Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Legs _____ Legs _____ Other _____ Attached _____

Sheet 2 of 2
 1B13-059
 SHEET 34 of 36
 2819

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
 *As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
 (b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear components)

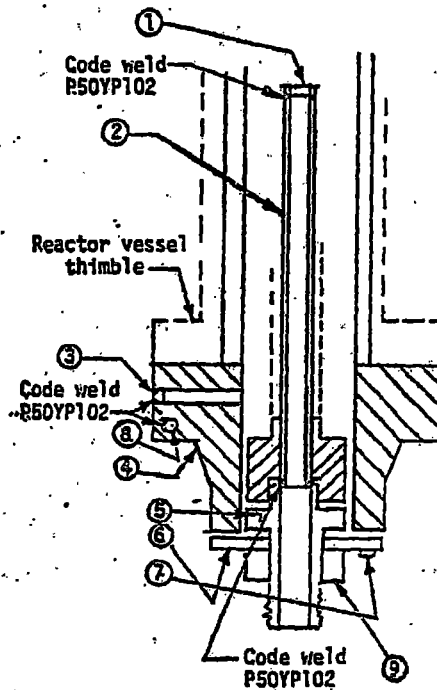
2. Identification-Certificate Holder's Serial No. of Part A4179 Nat'l Bd. No. _____

(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #7RDE144DG001

(c) Applicable ASME Code: Section III, Edition 1974, Addenda inc. W175 Case No. N207 1361-2 Class 1

1. Cap 166B9274P1
 (167A2343)
 SA182 - F316
 3/8 thick x 1 1/16 OD
2. Indicator Pipe 166B9313P1
 SA312-TP316
 3/4 sch 40-seamless pipe
 0.113 wall thickness
 1.065 max. dia.
3. Plug 159A1176P1
 SA182-F304
 1/4 thick x 0.812 OD
4. Flange 919D610P1 (719E474)
 SA182-F304
 3.37 thick x 9 5/8 OD
 neck 1 1/16 thick x 5.0 OD
 2.875 ID
5. Base 137C5311P1
 XM-19 ASME SA479
 3.0 OD x .884 ID
6. Ring Flange 11485122P2
 SA182-F304
 1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
 SA193-B6
 6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
 SA182-F304
 0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
 DWG - 768E534

9. Nut 137C5934P1
 XM-19 SA479
 1.30 thick x 2.62 dia. 02064
 02064
 11-711-0

1513-054
SHEET 35 of 36

FORM N-3 NPT CERTIFICATE HOLDERS' QUALIFICATION FROM PROVISIONS OF THE ASME CODE
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(Name and address of NPT Certificate Holder)
- (b) Manufactured for General Electric Company, San Jose, California (NRSG)
(Name and address of NPT Certificate Holder for completed product contract)
2. Identification - Certificate Holder's Serial No. of Part A5426 Nat'l Id. No. _____
- (a) Constructed According to Drawing No. 76SR534G001 Drawing Prepared by E. L. Peterson
- (b) Description of Part Inspected Control Rod Drive, Model #7MDR144DG001
- (c) Applicable ASME Code Section III, Edition 1974, Addenda None, Case No. N20/1361-2 Class 1
3. Remarks Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 6/12 19 81 Signed GE, NEPD-IND By J. J. [Signature]
(NPT Certificate Holder)
Certificate of Authorization Expires June 16, 1981 Certificate of Authorization No. NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file as GE, NEPD-IND-0A, Castle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 2

Stress analysis report on file as GE, NEPD, San Jose, Calif.
22A4912, Rev. 2

Design specifications certified by E. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

Stress analysis report certified by E. N. Sridhar Prof. Eng. State Calif Reg. No. 18345

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by DEPARTMENT OF LABOR of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 6/12 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 6/12 19 81 [Signature] Commission N.C. 723.PA.WC1766, OHIO
(Inspector's Signature) (National Board, State, Province and No.)

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 11" x 17", (2) information is clear and legible, and (3) sheets are marked in accordance with the instructions on this form.
110/777 This Form (E020-40) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

to 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
 (Kind & Spec. No.) (Min. of Range Specification)

Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location Thickness Crown Radius Round Bottom Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Proc. (Conv. or Conc.)

(a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____
 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

Jacket Clearance _____
 (Describe or give and weld, top, etc. If large give dimensions, if bolted, describe or sketch)

Design pressure² _____ 1250 psi at _____ 575 °F Drop Weight _____ lb
 Charpy Impact _____ ft-lb at temp. of _____ °F

Items 9 and 10 to be completed for tube sections:

Tube Sheets: Stationary. Material _____ Dia. _____ Thickness _____ in. Attachment _____
 (Kind & Spec. No.) (Subject to process) (Provide, Sketch)

Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

Tubes: Material _____ O.D. _____ in. Thickness _____ in. Number _____ Type _____
 (Min. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

1. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
 (Kind & Spec. No.) (Min. of Range Specification)

2. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

3. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
 Location Thickness Crown Radius Round Bottom Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Proc. (Conv. or Conc.)

(a) Top, bottom, ends _____
 (b) Channel _____
 If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
 (Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____ lb
 Charpy Impact _____ ft-lb at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number _____ Size _____ Location _____

16. Nozzles

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. _____ Size _____ Location _____
 Openings: Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

18. Supporter Skirt (Yes or No) _____ Legs (Number) _____ Legs (Number) _____ Other (Describe) _____ Attached _____ (Where & How)

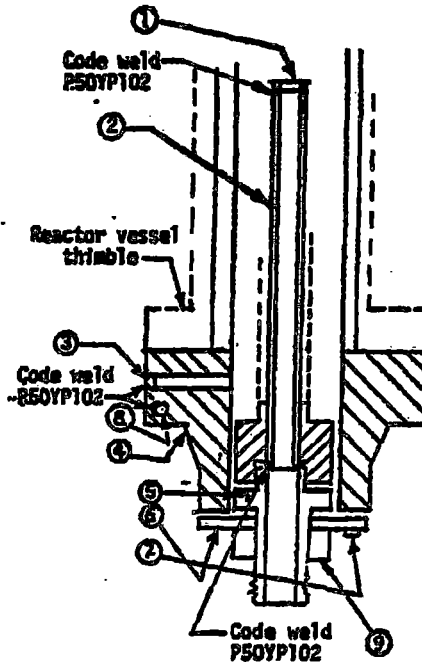
¹ If Postweld Heat-Treated.
² List other internal or external pressure with attachment temperature when applicable.

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SHEET 36 of 36

PLUG INDICATOR PIPE ASSEMBLY FOR CLEAR PART A APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electric Company, San Jose, California (GECC)
2. Identification-Certificate Holder's Serial No. of Part A5426 Part's Ed. No. _____
(c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(b) Description of Part Inspected Control Rod Drive, Model #768B144G001
(c) Applicable ASME Code Section III, Edition 1974, Addenda M'75, Case No. N207 1391-2, Class 1

1. Cap 16689274P1
(167A2343)
SA182 - F316
3/8 thick x 1 1/16 OD
2. Indicator Pipe 16689313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.
3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID
5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID
6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID
7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle
8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
Dwg - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia.

00522

1B21-462

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 03/15/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 20038339
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR BOILER PROCESS INSTRUMENTATION

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1644-5,N-242,N-32-4,1728,N-241,N-272,N-282,N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER PIPING	1B21	109	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21H0471, REPLACE SNUBBER S/N 30400009/17 WITH SNUBBER S/N 30400009/016.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI.

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 3/27, 20 15 Signed FENOC-PNPP Robert H. Robinson duy...
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 3/27, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 3/27, 20 15 Signed Steven Hoffmann Commissions 14531ANI OH197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1821-463

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 03/15/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200336353
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR BOILER PROCESS INSTRUMENTATION

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, N-242, N-32-4, 1728, N-241, N-272, N-282, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER PIPING	1B21	109	N/A	1885	REPLACEMENT	YES

7. Description of Work: PY-1B21H0449, REPLACE SNUBBER S/N 04616533/017 WITH SNUBBER S/N 04616533/013.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 3/27, 20 15 Signed FENOC-PNPP Robert H. Robinson Supervisor
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the Jurisdiction of OHIO and employed by HSD Global standards of CT have inspected the repair, modification or replacement described in this report on 3/27, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 3/27, 20 15 Signed Steven Hoffman Commissions 14521ANI 04197
(Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-464

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 03/16/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200336351
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR BOILER PROCESS INSTRUMENTATION

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, N-242, N-32-4, 1728, N-241, N-272, N-282, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER PIPING	1B21	109	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21H0450, REPLACE SNUBBER S/N 03615883-020 WITH SNUBER S/N 03615883/019

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 3/27, 20 15 Signed FENOC-PNPP Robert H. Robinson Supervisor
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 3/27, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 3/27, 20 15 Signed Steven Hoffman Commissions 1451241 OH197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-465

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
As required by the Provisions of the ASME Code Section XI							
NOP-CC-5703-04 Rev. 01 <i>sep 2/16</i>							
1. Owner: <u>FirstEnergy Nuclear Generation, LLC</u>		Date <u>04/24/2015</u>		Sheet <u>1</u> of <u>1</u>			
<u>76 South Main Street, Akron OH 44308</u>							
2. Plant: <u>Perry Nuclear Power Plant (PNPP)</u>		Unit <u>ONE</u>		200336352		(Repair Org. P.O. No., etc.)	
<u>10 Center Road, Perry, Ohio 44081</u>							
3. Work Performed By: <u>FirstEnergy Nuclear Operating Company PNPP</u>		Type Code Symbol Stamp <u>NR</u>		Authorization No. <u>33</u>		Expiration Date <u>9-28-2017</u>	
<u>10 Center Road, Perry, Ohio 44081</u>							
4. Identification of System: <u>PY-1B21, NUCLEAR STEAM SHUTOFF SYS.</u>							
5. (a) Applicable Construction Code: <u>ASME SECTION III CLASS 1</u> , 1974 Edition							
<small>NAME/SECTION/DIVISION/CLASS</small>							
<u>WINTER</u> 1975 Addenda Code Case(s) * <u>1644-5, 1728, N-32-4, N-241, N-242, N-272, N-282, N-413</u>							
(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition <u>W/75</u> Addenda * Code Case(s)							
(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: <u>2001, EDITION</u> <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(e) Design Responsibilities <u>FENOC</u>							
6. Identification of Components Repaired, or Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1B21	109	N/A	1985	REPLACEMENT	YES
7. Description of Work: <u>PY-1B21H0445, REPLACE SIZE 304256RC1 S/N 04616533-010 WITH SNUBBER SIZE 304256RC1 S/N 04616533/009</u>							
8. Test Conducted: Hydrostatic- <input type="checkbox"/> Pneumatic- <input type="checkbox"/> Nominal Operating Pressure- <input type="checkbox"/> Other- <input type="checkbox"/>							
Pressure <u>N/A</u> psi Test Temperature <u>N/A</u> degrees F Code Case(s) <u>N/A</u>							

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI <small>NOP-CC-5703-04 Rev. 01</small>	
9. Remarks:	<div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div>
<p style="text-align: center;"><u>NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.</u></p>	
<p><small>Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.</small></p>	
CERTIFICATE OF COMPLIANCE	
<p>I, <u>TOBIAS J KOSTNER</u>, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.</p>	
<p>National Board Certificate of Authorization No. <u>33</u> to use the "NR stamp expires <u>28 SEPT</u>, 20 <u>17</u></p>	
<p>Date <u>5/3</u>, 20 <u>15</u> Signed <u>FENOC-PNPP</u> <u>[Signature]</u> <u>NUC QUALITY TECH</u> <small>(name of repair organization) (authorized representative) (title)</small></p>	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
<p>I, <u>Steven Hoffmann</u>, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>HSB Global Standards</u> of <u>CT</u> have inspected the repair, modification or replacement described in this report on <u>5/3</u>, 20 <u>15</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.</p>	
<p>By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.</p>	
<p>Date <u>5/3</u>, 20 <u>15</u> Signed <u>[Signature]</u> Commissions <u>14551A11 OH1197</u> <small>(inspector) (National Board (include endorsements), and jurisdiction, and no.)</small></p>	

1B21-466

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/02/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200461372
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE/A&ES	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21G7085, REPLACE 70 KIP SNUBBER S/N 104 WITH 70 KIP SNUBER S/N 29.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the NR stamp expires 28 SEPT, 20 17

Date 5/2, 20 15 Signed FENOC-PNPP [Signature] NUC QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by MSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/3, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/3, 20 15 Signed [Signature] Commissions 14537AWI OH197
(Inspector) (National Board (include endorsements) and jurisdiction, and no.)

1B21-467

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/02/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200461370
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE/A&ES	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21G7074, REPLACE 70 KIP SNUBBER S/N 101 WITH 70 KIP SNUBBER S/N 303.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17

Date 5/3, 20 15 Signed FENOC-PNPP Tobias J. Kostner NUC QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/3, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/3, 20 15 Signed Steven Hoffmann Commissions 14537241 OH1197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-469

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/06/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200567292
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) 1644-5, 1728, N-32-4, N-241, N-242, N-272, N-282,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda Code Case(s)
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1B21	109	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21H0453. REPLACE LISEGA SNUBBER S/N 30800103/006 WITH LISEGA SNUBBER S/N 30800103/004.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-D4 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 5/6, 20 15 Signed FENOC-PNPP Steven Hoffman SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by MSB Global standards of CT have inspected the repair, modification or replacement described in this report on 5/6, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/6, 20 15 Signed Steven Hoffman Commissions 14531AM OH197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-470

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01:

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/20/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200565862
 (Repair Orig. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL	QA-26	665	N/A	1981	REPLACEMENT	YES

7. Description of Work: PY-1B21F0032A. REINSTALL EXISTING TEST PORT PLUG FOLLOWING VALVE INTERNAL EXAMINATION UTILIZING WELD FILLER MATERIAL 3/32" E7018 (H/N 67702C).

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1037 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01.

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
Date 5/20, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/20, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 15 Signed [Signature] Commissions 11531ANI CH127
(inspector) (National Board (include endorsement), and jurisdiction, and no.)

1B21-471

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/21/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200565863
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W75
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL	QC-51	670	N/A	1982	REPLACEMENT	YES

7. Description of Work: PY-1B21F0032B, REINSTALL EXISTING TEST PORT PLUG FOLLOWING VALVE INTERNAL EXAMINATION UTILIZING WELD FILLER MATERIAL 3/32" E7018 (H/N 67702C AND M100139)

8. Test Conducted; Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1037 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 5/21, 20 15. Signed FENOC-PNPP Tobias Kostner SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN WILKINSON, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/21, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/21, 20 15 Signed Steven Wilkinon Commissions 14557ANI 041197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-472

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/09/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200389257
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1726, 1644-4, N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda Code Case(s)
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0051C, REPLACE SAFETY RELIEF VALVE (S/N 160861) WITH SAFETY REFURBISHED SAFETY RELIEF VALVE (S/N 160880). SEE REMARKS FOR FASTENER DETAILS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1" - 8 SA 193 OUTLET STUDS (H/N 8G88) AND (12) 1 5/8" - 8 SA 193 INLET STUDS (H/N 5J24).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 6/9, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/11, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/11, 20 15 Signed [Signature] Commissions 14531 A01 OH197
(Inspector) (National Board (include endorsements) and jurisdiction, and no.)

Page 4 of 4

* Corrected report

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1

1B21-472 SHT.2 of 2

1. Manufactured by G. Dijkers & Co. NV, Hengelo (O) The Netherlands
(Name and Address of Manufacturer)

2. Manufactured for General Electric, San Jose, California
(Name and Address of Certificate Holder)

3. Location of Installation Perry 11 North Perry Ohio
(Name and Address of Purchaser or Owner)

4. G 471-6/125.04.03 rev. 6 82 1979
(CRN) (Drawing No.) (Natl. Bro. No.) (Year Built)

5. Valve G471 Identifying Nos. 160880
(Model No., Scribe No.) (Certificate Holder's Serial No.)
 Type: Safety/Relief
Safety, Safety Relief, Pilot Power Actuated
 Orifice Size 4.84 inch Nominal Inlet Size 8 inch Outlet Size 10 inch

6. Set Pressure (PSIG) 1190 Rated Temperature 585 °F
 Stamped Capacity 924933 lb/hr @ 3 % Overpressure Blowdown (PSIG) 111.2
Sat. Steam
 Hydrostatic Test (PSIG) Inlet 2350 Outlet 975
(Applicable to valves for closed systems only)

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	10.23.8 nr. 1	SA-352-LCB
Bonnet or Yoke	12.35.8-1	SA-352-LCB
Support Rods		
Nozzle	AEU 040	SA-350-LF2
Disc	57.29.8 4E	SA-351-CF3A
Spring Washers	26.30.95-80	45 Cr-Mo-V 67
Adjusting Screw	AHE 035-AFU 083	SA-182-F 316
Spindle	AJE 011	A-564-74 type-630 cond. H1100
Spring		
* Bolting	ANY/AJJ/CAL/AVS/ALR/AJS/	SA-193-87/SA-194-7/SA-194-2H
Other Pieces*	APA/AJL/AMZ	
Liner	62.09.8-1	SA-351-CF3A
Cover	58.17.8-1	SA-351-CF3A
Vent. Pipe	AKE 012	SA-105
Flanges	AKF 065 AKF 001	SA-105

Max. outside diam. valve body 478 mm (18.82)"
 Max. outside length valve 1644 mm (64.72)"

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

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda SW-1, 76 Code Case No. N.A. (Date)

Date 01-06-25 Signed G. Dijkers & Co NV by J.A. vralba
(Certificate Holder)

Our ASME Certificate of Authorization No. 1806 to use the NV NV symbol expires 1st. July 1980
(Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry II
 Stress analysis report (Class 1 only) on file at General Electric and Perry II

Design specifications certified by¹ Boyd P. Brooks
 PE State California Reg. No. 13655

Stress report certified by¹ Robert L. Weiss
 PE State California/Illinois Reg. No. M 14921/62-25749

¹ Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio, PA and employed by Kemper Ins of Long Grove III have inspected the pump, or valve, described in this Data Report on 23 March 19 79 and state that to the best of my knowledge and belief, the N-Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 6-26-79
 Signed J.W. Stokes Commissions NB 4805
(Inspector) (NBT, BC, State Prov. and No.)

1B21-473

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/10/2015
76 South Main Street, Akron OH 44308 Sheet 2 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200389252
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF.SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0041E, REPLACE SAFETY RELIEF VALVE (S/N 160850) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160867) AND FASTENERS AS DETAILED IN REMARKS

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACE (16) 1"-8 SA 193 OUTLET STUDS (H/N 7R70 AND 8G89), (12) 1 5/8"-8 SA 193 INLET STUDS (H/N 3U53), (8) 5/8"-11 SA 193 SUB EXHAUST VENT STUDS (H/N 7404456) AND (16) 5/8" SA 194 HEAVY HEX NUTS (H/N 10C6).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 6/10, 20 15 Signed: FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/11, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/11, 20 15 Signed: [Signature] Commissions: 14557ANI OH1057
(inspector) (National Board (include endorsements, and jurisdiction, and no.))

page 2 of 2

* Corrected report

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES
As Required by the Provisions of the ASME Code, Section III, Div. 1

1821-473 S&T 20F2

1. Manufactured by: G. Dijkers & Co. NV, Hengelo (O), The Netherlands
(Name and Address of Certificate Holder)
 Manufactured for: General Electric, San Jose, California
(Name and Address of Purchaser or Owner)
 3. Location of Installation: Perry 11 Spares North Perry Ohio
(Name and Address)
G 471-6/125.04.03 140 1979
(CRN) (Drawing No.) (Nat'l. Std. No.) (Year Built)
 6. Valve: G471 Identifying No. 160887
(Model No., Symbol) (Certificate Holder's Serial No.)
 Type: Safety/Relief
Safety, Relief, Pilot, Power Actuated
 Orifice Size: 8" (Flanges) Outlet Size: 10"
Inch Inch
 5. Set Pressure (PSIG) 1165 Rated Temperature 585
 Stamped Capacity: 905732 lb/hr @ 2350 % Overpressure Blowdown (PSIG) 26.85
Sat. Steam Hydrostatic Test (PSIG) Inlet 975 Outlet 975
(Applicable to valves for closed systems only)
 7. Pressure Retaining Pieces:

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	<u>08-37-8s/n-2</u>	SA 352 LCB
Bonnet or Yoke	<u>01-15-8-s/n4</u>	SA 352 LCB
Support Rods		
Nozzle	<u>AJW-067</u>	SA 350 LF2
* Disc	<u>54-09-9-s/n-28</u>	SA 351 CF3A
* Spring Washers	<u>26-30-95-s/n-129</u>	45 Cr Mo V 67
Adjusting Screw	<u>ASB-111/CBA-073</u>	SA 182 F 316
Spindle	<u>APG-012</u>	A 564-74 type 630 cond. H1100
Spring		
* Moting	<u>ANY/ANZ/AJS/ APA/ APB/ ANZ</u>	SA 193-B77/SA 194-77/SA 194-2H
On Valve	<u>CAL/AVS/AJK/AUY</u>	
LINEP	<u>57-12-8-s/n-2</u>	SA 351 CF3A
Cover	<u>65-17-8-s/n-8</u>	SA 351 CF3M
Vent. Pipe	<u>AKE 090</u>	SA 105
Flanges	<u>ASA 050/ASA 208</u>	SA 105

Max. outside diam. valve body: 478 mm. (18.82)

Max. outside length valve : 1647 mm. (64.85)

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

FORM NV-1 (Back) 3

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Sum-76 (Date)

Code Case No. N.A.

Date 01.07.03 Signed G. Dikkers & Co NV by [Signature]
(IN Certificate Holder)

Our ASME Certificate of Authorization No. 1806 to use the NV
(Date) symbol expires 1st. July 1980
(Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry 1+1 spares
 Stress analysis report (Class 1 only) on file at General Electric and Perry 1+1 spares

Design specifications certified by Boyd P. Brooks
 PE State California Reg. No. 13655

Stress report certified by Robert L. Heiss
 PE State California/Illinois Reg. No. M-14921/62-25749

1 Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario (Canada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on 25 September 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warrant, 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 personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 27 July 19 81

Signed [Signature] (Inspector) Commissions N.B. 6653
(Natl. Bd., State Prov. and No.)

1B21-474

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/10/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200389254
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 1974 Edition
 NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)
 Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)
 Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003, Addenda N/A
 Code Case(s)

(e) Design Responsibilities: FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0047C. REPLACE SAFETY RELIEF VALVE (S/N 160854) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160895) AND FASTENERS AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1"-8 SA 193 OUTLET STUDS (H/N 7R70 AND 3V71) AND (12) 1 5/8"-8 SA 193 INLET STUDS (H/N 5J24 AND 3453).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17

Date 6/10, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSR Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/11, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/11, 20 15 Signed [Signature] Commissions 14551ANI OH197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

* Corrected report

FORM NV-1 IN CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*
 As Required by the Provisions of the ASME Code, Section III, Div. 1

1821-474 SHF 20P2

1. Manufactured by G. Dijkers & Co., NV, Hengelo (O) The Netherlands
(Name and Address of M. Certificate Holder)

2. Manufactured for General Electric, San Jose, California
(Name and Address of Purchaser or Owner)

3. Location of installation Perry 1 + 11 spares North Perry Ohio
(Name and Address)

N/A G 471-6/125.04.03 rev. 6 153 1979
(CRN) (Drawing No.) (Nat'l. Brd. No.) (Year Built)

5. Valve G471 Identifying Nos. 160895
(Model No.; Series No.) (In Certificate Holder's Serial No.)

Type Safety/Relief
Safety, Safety Relief, Pilot, Power Actuated

Orifice Size 4.84 Nominal Inlet Size 8" (Flange) Outlet Size 10"
Inch Inch Inch

6. Set Pressure (PSIG) 1180 Rated Temperature 585 °F
(Set Steam)

Stamped Capacity 917253 lbs/hr @ 3 % Overpressure Blowdown (PSIG) 40.14
(Set Steam)

Hydrostatic Test (PSIG) Inlet 2350 Outlet 975
(Applicable to valves for closed systems only)

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	09-38-8 s/n 1	SA 352 LCB
Bonnet or Yoke	14-34-8 s/n 4	SA 352 LCB
Support Rods		
Nozzle	AJW 128	SA 350 LF2
Disc	54-09-9 s/n 18	SA 351 CF3A
Spring Washers	26-30-95 s/n 155	45 Cr. Mo. V 67
Adjusting Screw	CBA 051 CBA 072	SA 182 F 316
Windle	CAD 016	A 564-74 type 630 cond. H1100
Spring		
Bolting	ANY/ANZ/CAH/AJS/APA/APB/ANZ	SA 193-B7/SA 194-77/SA 194-2H
Seals/O-Rings	CAL/ALR/AWZ	
Liner	62-39-8 s/n 1	SA 351 CF3A
Cover	52-37-8 s/n 1	SA 351 CF8M
Vent. Pipe	AWB 045	SA 105
Flanges	AKF 006 AKF 052	SA 105

Max. outside diam. valve body 479 mm (18.86)

Max. outside length valve 1647 mm (64.84)

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

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Sum. '76 Code Case No. N-A.

Date 81-07-01 Signed G. Dikkers & Co NV by [Signature]
(Date) (In Certificate Holder)

Our ASME Certificate of Authorization No. 1806 to use the NV symbol expires 1st July 1980
(Date) (NVI)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry 1 + 11 spares
 Stress analysis report (Class 1-only) on file at General Electric and Perry 1 + 11 spares

Design specifications certified by Boyd P. Brooks
 PE State California Reg. No. 13655

Stress report certified by Robert L. Weiss
 PE State California/Illinois Reg. No. M 14921/62-25749

* Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario (Canada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on 10 October, 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 7 July 19 79
 Signed [Signature] Commissions N.B. 6653
(Inspector) (Nat'l Bd., State Prov. and No.)

1B21-475

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/13/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200636363
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0047F, REPLACE SAFETY RELIEF VALVE (S/N 160873) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160875) AND FASTENERS AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1"-8 SA 193 OUTLET STUDS (H/N 07X0) AND (12) 1 5/8"-8 SA-193 INLET STUDS (H/N 5J24).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 7/13, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMAN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14531ANI OH1197
(inspector) (National Board (include endorsements), and jurisdiction, end no.)

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

1B21-475
SHEET 2 of 3
6/11/6

1. Manufactured by G. Dijkers & Co. NV, Hengelo (O) The Netherlands
(Name and Address of Manufacturer)

2. Manufactured for General Electric, San Jose, California
(Name and Address of Purchaser or Owner)

Location of Installation Perry, 11 North Perry Ohio
(Name and Address)

4. G 471-6/125.04.03 rev. 6 80 1979
(CRN) (Drawing No.) (Nat'l. Brd. No.) (Year Built)

5. Valve G471 Identifying Nos. 160875
(Model No., Series No.) (IN Certificate Holder's Serial No.)

Type Safety/Relief
Safety, Safety Relief, Pilot, Power Actuated

Orifice Size 4.84 Nominal Inlet Size 8" Outlet Size 10"
inch inch inch

6. Set Pressure (PSIG) 1180 Rated Temperature 585 °F
 Stamped Capacity 917253 lbs/hr @ 3 % Overpressure Blowdown (PSIG) 36.5
Set Steam 2350

Hydrostatic Test (PSIG) Inlet 975 Outlet 975
(Applicable to valves for closed systems only)

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	07.22.8 sn 2	SA 352 LCB
Bonnet or Yoke	04.07.8 sn 3	SA 352 LCB
Support Rods		
Nozzle	AJW 037	SA 350 LF2
Disc	54.30.8 sn 1B	SA 351 CF3A
Spring Washers	26.30.95 sn 77	45 Cr Mo V.67
Adjusting Screw	AME 028 AMF 010	SA 182 F 316
Spindle	AJE 039	A 564-74 type 630 cond. H1100
Spring		
* Bolting	ANY/AJJ/AYE/AVS/AJK	SA 193-B7/SA 194-7/SA 194-2H
ORING PIECE	AWZ/AJS/APA/AJL	
Liner	56.17.8-2	SA 351 CF3A
Cover	52.23.8-5	SA 351 CF8M
Vent. Pipe	AKE 008	SA 105
Flanges	AFV 128 AKF 030	SA 105

Max. outside diam. valve body 478 mm (18.82)"

Max. outside length valve 1641 mm (64.60)"

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda sum '76 Code Case No. N.A. (Date)

Date 81-06-25 Signed G. Dijkers & Co NV by [Signature] (N Certificate Holder)

Our ASME Certificate of Authorization No. 1806 to use the NV symbol expires 1st. July 1980 (NV) (Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry II
 Stress analysis report (Class 1 only) on file at General Electric and Perry II

Design specifications certified by Boyd P. Brooks
 PE State California Reg. No. 13655
 Stress report certified by Robert I. Weiss
 PE State California/Illinois Reg. No. M 14921/62-25749

1 Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio, PA and employed by Kemper Ins. of Long Grove III have inspected the pump, or valve, described in this Data Report on 23 March, 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 6-26-81
 Signed [Signature] Commissions NB 4805
(Inspector) (Nat'l. Bd., State Prov. and No.)

1827-475
SHEET 3 of 3

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

1. Work performed by: NWS Technologies, LLC Purchase Order # 55119524
131 Venture Boulevard, Spartanburg, SC 29308
2. Work performed for: First Energy Corporation / Perry Nuclear Power Plant
- 3/4. Owner - name, address and identification of nuclear power plant: Perry Nuclear Power Plant
10 Center Road Perry, Ohio 44081
5. a: Repaired pressure relief device: Main Steam Safety Relief Fig. #G471
b: Name of manufacturer: G. Dijkers & Co. N.V.
c: Identifying nos.
- | G471 MSSRV | 160875 | 80 | steam | 8 x 10 | 1979 |
|---|-------------------------|-------------|-----------------|--------------|------------|
| (type) | (intra S/N) | (NB#) | (service) | (size) | (yr.built) |
| d: Construction Code: <u>ASME / III / I</u> | <u>1974</u> | <u>S 76</u> | <u>n/a</u> | <u>1</u> | |
| | (name/section/division) | (addenda) | (Code Cases(s)) | (Code Class) | |
6. ASME Code Section XI applicable for inservice inspection: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1974 S 76 n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1180 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): As-found test - sat. Disassembled, lapped seats, cleaned, buffed, inspected, assembled. Installed 2 inlet heli coils. Certified set-pressure using steam. Rebuilt air actuator. Stroked actuator/airlock. Jacked and lapped. Certified seat tightness using steam.
12. Remarks: NWS Traveler # 11-185. Installed (2) inlet heli coils Stock Code 16576525. O'rings, gaskets, lock tabs, lock wire, and lube replaced as required / needed.

CERTIFICATE OF COMPLIANCE			
I, <u>Jason C. Gibson</u> certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.			
National Board Certificate of Authorization No. <u>632</u>	to use the "VR" stamp expires <u>April 3, 2018.</u>		
National Board Certificate of Authorization No. <u>81</u>	to use the "NR" stamp expires <u>April 9, 2018.</u>		
<u>4/3/15</u> Date	<u>NWS Technologies, LLC</u> Repair Organization	<u>JCG</u> Authorized representative	<u>Manager, QA</u> Title
CERTIFICATE OF INSPECTION			
I, <u>Charles F. Toegel</u> holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>North Carolina</u> and employed by <u>HSB Global Standards</u> have inspected the repair, modification or replacement described in this report on <u>3 April 2015</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.			
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.			
<u>4/3/15</u> Date	<u>Charles F. Toegel</u> Inspector's Signature	<u>NB # 8462, A, N, I NC# 1073</u> Commissions (NB Incl endorsements), jurisdiction, & no.)	

1B21-476

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/24/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200389233
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728, 1644-4, N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0041A, REPLACE SAFETY RELIEF VALVE (S/N 160884) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160900) AND FASTENERS AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1"-8 SA-193 OUTLET STUDS (H/N 8G88), (12) 1 5/8"-8 SA-193 INLET STUDS (H/N 5J24), (16) 5/8" SA-194 SUB EXHAUST VENT HEAVY HEX NUTS (H/N 10C6), AND (8) 5/8"-11 SA-193 STUDS (H/N 7404456).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp" expires 28 SEPT, 20 17
 Date 6/26, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 15 Signed [Signature] 14531 ANI OH197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1021-476 SHEET 2 of 3

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES
 As Required by the Provisions of the ASME Code, Section III, Div. 1

MRF# 10854

1. Manufactured by G. Dijkers & Co., N.V., Hengelo (U) The Netherlands
(Name and Address of N Certificate Holder)

2. Manufactured for General Electric San Jose California
(Name and Address of Purchaser or Owner)

3. Location of installation Perry I + 11 spares Noerth Perry Ohio
(Name and Address)

4. N/A G471-6/125,04,03 rev. 6 157 1979
(CRN) (Drawing No.) (Nat'l. Std. No.) (Year Built)

5. Valve G471 Identifying Nos. 161900
(Model No., Series No.) (N Certificate Holder's Serial No.)

Type safety/relief
Safety, Safety Relief; Pilot; Power Actuated

Orifice Size 4.84" Nominal Inlet Size 8" (Flange) Outlet Size 10"
inch inch inch

6. Set Pressure (PSIG) 1190 Rated Temperature 585 °F
 Stamped Capacity 924933 lbs/hr @ 3 % Overpressure Blowdown (PSIG) 31144
Set. Steam

Hydrostatic Test (PSIG) Inlet 2350 Outlet 975
(Applicable to valves for closed systems only)

7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	<u>06.12.8 s/n 3</u>	<u>SA 352 LCB</u>
Bonnet or Yoke	<u>13.38.8 s/n 1</u>	<u>SA 352 LCB</u>
Support Rods		
Nozzle	<u>AJR 130</u>	<u>SA 350 LF2</u>
Disc	<u>57.07.9 s/n 18</u>	<u>SA 351 CF3A</u>
Spring Washers	<u>26.30.95 s/n 161</u>	<u>45 Cr Ho V 67</u>
Adjusting Screw	<u>CBA 059/ASB 057</u>	<u>SA 182 F316</u>
Spindle	<u>CAD 007</u>	<u>A 564-74 type 630 cond. #1100</u>
Spring		
Bolting	<u>ANY/ANZ/AVS/AJS/APA/APB/ANZ</u>	<u>SA 193-87/SA 194-7/SA 194-211</u>
Other Pieces		

Liner	<u>55.08.9 s/n 1</u>	<u>SA 351 CF3A</u>
Cover	<u>AUR 138</u>	<u>SA 351 CF8M</u>
Vent pipe	<u>AFW 075</u>	<u>SA 105</u>
Flanges	<u>ASA 162/ASA 123</u>	<u>SA 105</u>
Max. outside diam. valve body:	<u>479 mm. (18.86)</u>	
Max. outside length valve	<u>: 1646 mm. (64.80)</u>	

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

FORM NV-1 (Back)

MR# 10854

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div 1, Edition, Addenda 1974 (Date)

Code Case No. N/A

Date 7/10/10 Signed R. J. Howe (In Certificate Holder)

Our ASME Certificate of Authorization No. _____ to use the (NV) symbol expires 1st July, 1980 (Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry 1 + 11 spares

Stress analysis report (Class 1 only) on file at General Electric and Perry 1 + 11 spares

Design specifications certified by' Ray P. Brooks

PE State California Reg. No. 13055

Stress report certified by' Robert L. Weiss

PE State California/Illinois Reg. No. 31421/62-25744

* Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario (Canada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on 10. OCTOBER 1979 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10. OCTOBER 1979

Signed [Signature] (Inspector) Commissions [Signature] (Nat'l Bd., State Prov. and No.)

1821-476
SHEET 3 of 3

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

1. Work performed by: **NWS Technologies, LLC** Purchase Order # **55119524**
131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: **First Energy Corporation / Perry Nuclear Power Plant**

3/4. Owner - name, address and identification of nuclear power plant: **Perry Nuclear Power Plant**
10 Center Road Perry, Ohio 44081

5. a: Repaired pressure relief device: **Main Steam Safety Relief Flg. #G471**
b: Name of manufacturer: **G. Dikkers & Co. N.V.**
c: Identifying nos.

	G471 MSSRV (type)	160900 (mfr's S/N)	157 (NB#)	steam (service)	8 x 10 (size)	1979 (yr. built)
d: Construction Code:	ASME / III / I (name/section/division)	1974 (edition)	S '76 (addenda)	n/a (Code Case(s))	1 (Code Class)	
6. ASME Code Section XI applicable for inservice inspection:			2001 (edition)	2003 (addenda)	n/a (Code Case(s))	
7. ASME Code Section XI used for repairs, replacements:			2001 (edition)	2003 (addenda)	n/a (Code Case(s))	
8. Construction Code used for repairs, replacements:			1974 (edition)	S '76 (addenda)	n/a (Code Case(s))	

9. Design responsibilities: **n/a**

10. Opening pressure: **1165 psig**
Set-pressure adjustment made at: **NWS Technologies, LLC** using **steam**

11. Description of work (include name and identifying number of replacement parts): **As-found test - saf. Disassembled, lapped seats, cleaned, buffed, inspected, assembled. Certified set-pressure using steam. Jacked and lapped. Installed 2 inlet helicoils, rebuilt air actuator. Stroked actuator/airblock. Certified seat tightness using steam.**

12. Remarks: **NWS Traveler # 09-94. Installed (2) inlet helicoils Stock Code 16576525. O'rings, gaskets, lock tabs, lock wire, and lube replaced as required / needed. Duplicate Nat'l Board nameplate attached.**

CERTIFICATE OF COMPLIANCE

I, **Jason C. Gibson** certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
National Board Certificate of Authorization No. **632** to use the "VR" stamp expires **April 3, 2018**.
National Board Certificate of Authorization No. **81** to use the "NR" stamp expires **April 9, 2015**.

2/18/15 **NWS Technologies, LLC** *JCG* **Manager, QA**
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, **Charles F. Toegel** holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of **North Carolina** and employed by **HSB Global Standards** have inspected the repair, modification or replacement described in this report on **18 FEB 2015** and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

2/18/15 *Charles F. Toegel* **NB # 8462, A, N, I NC# 1073**
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

1B21-477

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 08/24/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200389256
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0051A. REPLACE SAFETY RELIEF VALVE (S/N 160853) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160878) AND FASTENERS AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1"-8 SA 193 OUTLET STUDS (H/N 7R70), (12) 1 5/8"-8 SA-193 INLET STUDS (H/N 5J24), (16) 5/8" SA-194 SUB EXHAUST VENT HEAVY HEX NUTS (H/N 10C6), AND (8) 5/8"-11 SA-193 STUDS (H/N 7404456).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT , 20 17
 Date 6/26, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 15 Signed [Signature] Commissions 14551AW OH1097
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-477
 SHEET 2 of 3
 4/6/5 * Corrected report

page 2 of 2

FORM HV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*
 As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by G. Dijkers & Co., NV, Mergelo (O) The Netherlands
(Name and Address of N Certificate Holder)

2. Manufactured for General Electric, San Jose, California
(Name and Address of Purchaser or Owner)

3. Location of Installation Perry 11 North Perry Ohio
(Name and Address)

4. G 471-6/125.04.03 rev. 6 78 1979
(CRN) (Drawing No.) (Nat'l. Brd. No.) (Year Built)

5. Valve 6471 Identifying Nos. 160878
(Model No., Series No.) (N Certificate Holder's Serial No.)

Type Safety/Relief
Safety, Safety Relief; Pilot; Power Actuated

Orifice Size 4.84 inch Nominal Inlet Size 8 inch Outlet Size 10 inch

6. Set Pressure (PSIG) 1190 Rated Temperature 585 °F
 Stamped Capacity 924933 lbs/hr @ 3 % Overpressure Blowdown (PSIG) 111,6
Sat. Steam

Hydrostatic Test (PSIG) Inlet 2350 Outlet 975
(Applicable to valves for closed systems only)

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	<u>13-45-7-5</u>	<u>SA 352 LCB</u>
Bonnet or Yoke	<u>11-32-8-1</u>	<u>SA 352 LCB</u>
Support Rods		
Nozzle	<u>AEU 059</u>	<u>SA 350 LF2</u>
Disc	<u>57-29-8 3B</u>	<u>SA 351 CF3A</u>
* Spring Washers	<u>26-30-95 sn. 78</u>	<u>45 Cr Mo V 67</u>
Adjusting Screw	<u>AFU 098 AHE 008</u>	<u>SA 182 F 316</u>
Spindle	<u>AJE 050</u>	<u>A 564-74 type 630 cond. H1100</u>
Spring		
* Bolting	<u>ANY/AJJ/AWZ/AVS/AJK</u>	<u>SA 193-B7/SA 194-7/SA 194-2H</u>
ORIFICE	<u>AWZ/AJS/APA/AJL/AJJ/AWZ/AYE</u>	
Liner	<u>52-31-8-1</u>	<u>SA 351 CF3A</u>
Cover	<u>55-28-8-9</u>	<u>SA 351 CF8M</u>
Vent. Pipe	<u>AKE 053</u>	<u>SA 105</u>
Flanges	<u>AFV 132 AKF 056</u>	<u>SA 105</u>

Max. outside diam. valve body 478 mm (18,82)"
 Max. outside length valve 1645 mm (64,76)"

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

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Sum. '76 Code Case No. N.A. (Date)

Date 8-06-25 Signed G. Dikkers & Co NV by [Signature]
(IN Certificate Holder)

Our ASME Certificate of Authorization No. 1806 to use the NV [Signature]
(NV)

symbol expires 1st. July 1980
(Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry II
 Stress analysis report (Class 1 only) on file at General Electric and Perry II

Design specifications certified by Boyd P. Brooks
 PE State California Reg. No. 13655

Stress report certified by Robert L. Weiss
 PE State California/Illinois Reg. No. M 14921/62-25749

1 Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio, PA and employed by Kemper Ins. of Long Grove III have inspected the pump, or valve, described in this Data Report on 23 March, 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 6-26 19 80
 Signed [Signature] Commissions NB 4805
(Inspector) (Nat'l. Bd., State Prov. and No.)

1B21-477
SHEETS 3 of 3

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

1. Work performed by: NWS Technologies, LLC Purchase Order # 7048872 Rev. #3
131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: First Energy Corporation - Perry Nuclear Power Plant

3/4. Owner - name, address and identification of nuclear power plant: Perry Nuclear Power Plant
10 Center Road Perry, Ohio 44081

5. a: Repaired pressure relief device: Main Steam Safety Relief Valve Fig. #G471

b: Name of manufacturer: G. Dijkers & Co. N.V.

c: Identifying nos.

	MSSRV	160878	n/a	steam	8 x 10	n/a
	(type)	(mfr's S/N)	(NB#)	(service)	(size)	(yr.built)
d: Construction Code:	<u>ASME Sec. III Div. 1</u>	<u>1974</u>	<u>W 75</u>	<u>n/a</u>	<u>n/a</u>	<u>1</u>
	(name/section/division)	(edition)	(addenda)	(Code Case(s))	(Code Class)	

6. ASME Code Section XI applicable for inservice inspection: 1989 n/a n/a
(edition) (addenda) (Code Case(s))

7. ASME Code Section XI used for repairs, replacements: 1989 n/a n/a
(edition) (addenda) (Code Case(s))

8. Construction Code used for repairs, replacements: 1974 W 75 n/a
(edition) (addenda) (Code Case(s))

9. Design responsibilities: n/a

10. Opening pressure: 1190 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam

11. Description of work (include name and identifying number of replacement parts): As-found test, disassemble, inspect, lapped, cleaned, replaced two main spring belleville washers with washers from another Perry valve, assembled. Certified set-pressure on steam. Jacked & lapped. Certified seat tightness on steam.

12. Remarks: NWS traveler # 01-32. Two spring washers, gaskets & locking washers replaced.

CERTIFICATE OF COMPLIANCE			
I, <u>Cesar V. Sierra</u> certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.			
National Board Certificate of Authorization No. <u>632</u>	to use the "VR" stamp expires <u>April 3, 2003.</u>		
National Board Certificate of Authorization No. <u>81</u>	to use the "NR" stamp expires <u>April 9, 2003.</u>		
<u>10/16/02</u> Date	<u>NWS Technologies, LLC</u> Repair Organization	<u>Vicent Sierra</u> Authorized representative	<u>Manager, QA</u> Title
CERTIFICATE OF INSPECTION			
I, <u>Carl R. Enos</u> holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>Tennessee</u> and employed by <u>Hartford Steam Boiler of CT</u> of <u>Hartford, CT</u> have inspected the repair, modification or replacement described in this report on <u>10/16/02</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.			
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.			
<u>10/16/02</u> Date	<u>Carl R. Enos</u> Inspector's Signature	<u>NB # 8460, A, N, I TN# 2236</u> Commissions (NB incl endorsements), jurisdiction, & no.)	

1B21-478

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/13/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200636352
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1728,1644-4,N-272

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1B21F0041B. REPLACE SAFETY RELIEF VALVE (S/N 160848) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160849) AND FASTENERS AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1038 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1"-8 SA 193 OUTLET STUDS (H/N 8G88 and 07X0) AND (12) 1 5/8"-8 SA-193 INLET STUDS (H/N 5J24).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 7/3, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14557A01 OH1197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

MANUFACTURERS DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES
 (As Required by the Provisions of the ASME Code, Section III, Div. I)

1B21-478
 SHEET 2 of 3
 9/26/15

1. Manufactured by G. Dijkers & Co. N.V. Hengelo (O) The Netherlands
(Name and Address of Manufacturer)

2. Manufactured for General Electric San Jose Calif.
(Name and Address of Purchaser or Owner)

3. Location of Installation North Perry, Ohio Perry
(Name and Address)

4. (CRN) G471-6/125.04.04 (Drawing No.) 24 (Nat'l. Brd. No.) 1978 (Year Bldg)

5. Valve (Model No., Series No.) G471 Identifying Nos. 160849 (Manufacturers' Serial No.)

Type safety/relief
Safety, Safety Relief, Pilot, Power Actuated

Orifice Size 4.84 inch Nominal Inlet Size 8 inch Outlet Size 10 inch

6. Set Pressure (PSIG) 1165 Rated Temperature 585 °F
 Stamped Capacity 905732 lbs/hr @ 2.6 % Overpressure Blowdown (PSIG) 96.2
Set Steam

Hydrostatic Test (PSIG) Inlet 2350 Outlet 975
(Applicable to valves for closed systems only)

7. Pressure Retaining Pieces	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	<u>13.46.7 s/n 5</u>	<u>SA 352 LCB</u>
Bonnet or Yoke	<u>12.26.8 s/n 1</u>	<u>SA 352 LCB</u>
Support Rods		
Nozzle	<u>AEU.031</u>	<u>SA 350 LF2</u>
Disc	<u>53.03.8 s/n 2B</u>	<u>SA 351 CF3A</u>
Spring Washers	<u>211653 s/n 1B</u>	<u>45 Cr Mo V 67</u>
Adjusting Screw	<u>AEU.043/AEU.063</u>	<u>SA 182 F316</u>
Spindle	<u>AEW 001</u>	<u>A 564-74 type 630 cond. H1100</u>
Spring		
Bolting	<u>AUP, AJK, AKA, AJL, ALR,</u>	<u>SA 193-B7/SA 194-7/SA 194-2H</u>
Other Pieces	<u>AUY, AMR, AJM</u>	
Liner	<u>64.04.8 s/n 2</u>	<u>SA 351 CF3A</u>
Cover	<u>58.46.7 s/n 7</u>	<u>SA 351 CF8M</u>
Vent pipe	<u>AFW 030</u>	<u>SA 105</u>
Flanges	<u>AFV 022/AFV 091</u>	<u>SA 105</u>

Max. outside diam. valve body: 476 mm (18.74 inch)
 Max. outside length valve: 1645 mm (64.76 inch)

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

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda ¹⁹⁷⁴ 1974 Code Case No. 176 (Date)

Date 10-11-78 Signed G. Dijkers & Co. N.V. by W.M. Willems
(Manufacturer)

Our ASME Certificate of Authorization No. 1806 to use the **NV**
(NV)

symbol expires 1st July, 1980
(Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry
 Stress analysis report (Class 1 only) on file at General Electric and Perry

Design specifications certified by¹ Royd P. Brooks
 PE State California Reg. No. 13655

Stress report certified by¹ Robert L. Weiss
 PE State California/Illinois Reg. No. M14921/62-25749

¹ Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Kemper Insp. of Long Grove III have inspected the pump, or valve, described in this Data Report on 10-11, 1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10-11 1978
 Signed A. C. Crutcher Commissions NB 4456
(Inspector) (Nat'l Bd., State Prov. and No.)

1321-478
SHEET 3 of 3

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

1. Work performed by: NWS Technologies, LLC Purchase Order # 55119524
131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: First Energy Corporation / Perry Nuclear Power Plant

3/4. Owner - name, address and identification of nuclear power plant: Perry Nuclear Power Plant
10 Center Road Perry, Ohio 44081

5. a: Repaired pressure relief device: Main Steam Safety Relief Fig. #G471
 b: Name of manufacturer: G. Dijkers & Co. N.V.
 c: Identifying nos.

	<u>G471 MSSRV</u>	<u>160949</u>	<u>24</u>	<u>steam</u>	<u>8 x 10</u>	<u>1978</u>
	(type)	(mfr's S/N)	(NB#)	(service)	(size)	(yr. built)
d: Construction Code:	<u>ASME / III / I</u>	<u>1974</u>	<u>S 76</u>	<u>n/a</u>	<u>1</u>	
	(name/section/division)	(edition)	(addenda)	(Code Cases(s))	(Code Class)	

6. ASME Code Section XI applicable for inservice inspection: 2001 2009 n/a
 (edition) (addenda) (Code Case(s)) (Code Class)

7. ASME Code Section XI used for repairs, replacements: 2001 2009 n/a
 (edition) (addenda) (Code Case(s))

8. Construction Code used for repairs, replacements: 1974 S 76 n/a
 (edition) (addenda) (Code Case(s))

9. Design responsibilities: n/a

10. Opening pressure: 1165 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam

11. Description of work (include name and identifying number of replacement parts): As-found test - seal. Disassembled, lapped seats, cleaned, buffed, inspected, assembled. Certified set-pressure using steam. Rebuilt air actuator. Stroked actuator/airblock. Jacked and lapped. Certified seal tightness using steam.

12. Remarks: NWS Traveler # 11-181. No ASME Section XI parts replaced. O-rings, gaskets, lock tabs, lock wire, and lube replaced as required / needed.

CERTIFICATE OF COMPLIANCE			
I, <u>Jason C. Gibson</u> certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.			
National Board Certificate of Authorization No. <u>632</u>	to use the "VR" stamp expires <u>April 3, 2018.</u>		
National Board Certificate of Authorization No. <u>81</u>	to use the "NR" stamp expires <u>April 8, 2018.</u>		
<u>4/3/15</u> Date	<u>NWS Technologies, LLC</u> Repair Organization	<u>[Signature]</u> Authorized representative	<u>Manager, QA</u> Title
CERTIFICATE OF INSPECTION			
I, <u>Charles F. Toegel</u> holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>North Carolina</u> and employed by <u>HSB Global Standards</u> have inspected the repair, modification or replacement described in this report on <u>3 APRIL 2015</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.			
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.			
<u>4/3/15</u> Date	<u>[Signature]</u> Inspector's Signature	<u>NB # 8462, A, N, I NC# 1073</u> Commissions (NB incl endorsements), jurisdiction, & no.)	

1B21-479

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI NOP-CG-5703-04 Rev. 01							
1. Owner: <u>FirstEnergy Nuclear Generation, LLC</u>		<u>76 South Main Street, Akron OH 44308</u>		Date <u>06/24/2015</u>	Sheet <u>1</u> of <u>3</u>		
2. Plant: <u>Perry Nuclear Power Plant (PNPP)</u>		<u>10 Center Road, Perry, Ohio 44081</u>		Unit <u>ONE</u>	<u>200389236</u> <small>(Repair Org. P.O. No., etc.)</small>		
3. Work Performed By: <u>FirstEnergy Nuclear Operating Company PNPP</u>				Type Code Symbol Stamp <u>NR</u>			
<u>10 Center Road, Perry, Ohio 44081</u>				Authorization No. <u>33</u>		Expiration Date <u>9-28-2017</u>	
4. Identification of System: <u>PY-1B21, NUCLEAR STEAM SHUTOFF SYS.</u>							
5. (a) Applicable Construction Code: <u>ASME SECTION III CLASS 1</u> , <u>1974</u> Edition <small>NAME/SECTION/DIVISION/CLASS</small>							
<u>WINTER</u> <u>1975</u> Addenda Code Case(s) * <u>1728,1644-4,N-272</u>							
(b) Construction Code used for repairs, modifications, or replacements: <u>1974</u> Edition <u>W/75</u> Addenda * Code Case(s)							
(c) ASME Code Section XI applicable for Inservice Inspection: <u>2001</u> Edition <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: <u>2001,EDITION</u> <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(e) Design Responsibilities <u>FENOC</u>							
6. Identification of Components Repaired, or Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	GE	1B21	64084	N/A	1985	REPLACEMENT	YES
7. Description of Work: <u>PY-1B21F0041C. REPLACE SAFETY RELIEF VALVE (S/N 160886) WITH REFURBISHED SAFETY RELIEF VALVE (S/N 160885) AND FASTENERS AS DETAILED IN REMARKS.</u>							
8. Test Conducted: Hydrostatic- <input type="checkbox"/> Pneumatic- <input type="checkbox"/> Nominal Operating Pressure- <input checked="" type="checkbox"/> Other- <input type="checkbox"/>							
Pressure <u>1038</u> psi Test Temperature <u>118</u> degrees F Code Case(s) <u>N/A</u>							

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: REPLACED (16) 1"-8 SA 193 OUTLET STUDS (H/N 7R70) AND (12) 1 5/8"-8 SA-193 INLET STUDS (H/N 5J24).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 6/26, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMANN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 15 Signed [Signature] Commissions NBS1 ANI 04197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES
 As Required by the Provisions of the ASME Code, Section III, Div. 1

1821-479
 SHEET 2 of 2
 6/10/15

1. Manufactured by G. Dijkers & Co. NV, Hengelo (O) The Netherlands
(Name and Address of Certificate Holder)

2. Manufactured for General Electric, San Jose, California
(Name and Address of Purchaser or Owner)

3. Location of Installation Perry 1 + 11 spares North Perry Ohio
(Name and Address)
G 471-6/125.04.03 Rev. 8 145 1979
(CRN) (Drawing No.) (Mater. Bld. No.) (Year Built)

4. Valve G471 Identifying Nos. 160885
(Model No., Series No.) (In Certificate Holder's Serial No.)

Type Safety/Relief
Safety, Safety Relief, Pilot, Power Actuated

Orifice Size 4.25 Nominal Inlet Size 8" (Flange) Outlet Size 10"
Inch Inch Inch

5. Set Pressure (PSIG) 1165 Rated Temperature 585 °F
 Stamped Capacity 905732 lb/hr @ 2350 % Overpressure Blowdown (PSIG) 102.23
Est. Steam 975

Hydrostatic Test (PSIG) Inlet _____ Outlet _____
(Applicable to valves for closed systems only)

	Serial No. or Identification	Material Specification Incl. Type or Grade
Jody	01.28.8 s/n 2	SA 352 LCB
Bonnet or Yoke	10.33.8 s/n 2	SA 352 LCB
Support Rods		
Nozzle	AJW 067	SA 350 LF2
Disc	53.07.9 s/n 2A	SA 351 CF3A
Spring Washers	26.30.95 s/n 126	45 Cr. Mo V. 67
Adjusting Screw	ASB 090 CBA 065	SA 182 F 316
Spindle	APG 037	A 564-74 type 630 cond. H1100
Spring		
Botting	ANY/ANZ/AVS/AJS/APA/APB/ANZ	SA 193-B7/SA 194-7/SA 194-2H
O-ring	CAL/AJK/AVY	
Liner	55.38.8 s/n 1	SA 351 CF3A
Cover	66.17.8 s/n 2	SA 351 CF3M
Vent. Pipe	AKE 091	SA 105
Flanges	ASA 025 ASA 156	SA 105

Max. outside diam. valve body 479 mm (18.86)
 Max. outside length valve 1645 mm (64.77)

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

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Sum. 76 (Date)

Case No. N.A.

Dated 01-07-01 Signed G. Dijkers & Co NV by J.A. Groden
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1806 to use the NV
(INV)

symbol expires 1st. July 1980
(Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry 1 + 11 spares

Stress analysis report (Class 1 only) on file at General Electric and Perry 1 + 11 spares

Design specifications certified by Boyd P. Brooks
PE State California Reg. No. 13655

Stress report certified by Robert L. Weiss
State California/Illinois Reg. No. M 14921/62-25749

Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario (Canada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on 26 September, 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Dated 7 July, 19 79

Signed [Signature] (Inspector) Commissions N.B. 6653
(Nat'l. Bd., State Prov. and No.)

1821-479
SHEET 3 of 3

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

1. Work performed by: NWS Technologies, LLC Purchase Order # 55118524
131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: First Energy Corporation / Perry Nuclear Power Plant

3/4. Owner - name, address and identification of nuclear power plant: Perry Nuclear Power Plant
10 Center Road Perry, Ohio 44081

5. a: Repaired pressure relief device: Main Steam Safety Relief Flg. #G471
 b: Name of manufacturer: G. Dijkers & Co. N.V.
 c: Identifying nos.

	<u>G471 MSSRV</u> (type)	<u>180885</u> (mfr's S/N)	<u>145</u> (NB#)	<u>steam</u> (service)	<u>8 x 10</u> (size)	<u>1979</u> (yr. built)
d: Construction Code:	<u>ASME / III / I</u> (name/section/division)	<u>1974</u> (edition)	<u>S '76</u> (addenda)	<u>n/a</u> (Code Cases(s))	<u>1</u> (Code Class)	
6. ASME Code Section XI applicable for inservice inspection:		<u>2001</u> (edition)	<u>2003</u> (addenda)	<u>n/a</u> (Code Case(s))		
7. ASME Code Section XI used for repairs, replacements:		<u>2001</u> (edition)	<u>2003</u> (addenda)	<u>n/a</u> (Code Case(s))		
8. Construction Code used for repairs, replacements:		<u>1974</u> (edition)	<u>S '76</u> (addenda)	<u>n/a</u> (Code Case(s))		

9. Design responsibilities: n/a

10. Opening pressure: 1165 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam

11. Description of work (include name and identifying number of replacement parts): As-found test - sat. Disassembled, lapped seats, cleaned, buffed, inspected, assembled. Certified set-pressure using steam. Jacked and lapped. Machined inlet flange and tongue. Installed 9 inlet helicoils. Rebuilt air actuator. Stroked actuator/airblock. Certified seat tightness using steam.

12. Remarks: NWS Traveler # 09-90. Installed (9) helicoils Stock Code 16576525. O'rings, gaskets, lock tabs, lock wire, and lube replaced as required / needed.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2018.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2015.

2/18/15 NWS Technologies, LLC JCG Manager, QA
 Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by HSB Global Standards have inspected the repair, modification or replacement described in this report on 18 FEB 2015 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

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

2/18/15 Charles F. Toegel NB # 8462, A, N, I NC# 1073
 Date Inspectors Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

1B21-480

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/15/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200513258
(Repair Org. P.O. No., etc.)
3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017
4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.
5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A
- (b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)
- (c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)
- (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)
- (e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
AIR PACK	RA HILLER	82	N/A	N/A	N/A	REPLACEMENT	NO

7. Description of Work: PY-1B21F0022C/PY-1B21F0462. REPLACED THE 1 1/4" X 1 5/8" MALE AIR FITTING (H/N RCY) AND 1 1/4" X 1 1/4" FEMALE FITTING (TRACE CODE D1DAX0526B) - MSIV AIRPACK.
8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 114 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the NR stamp expires 28 SEPT, 20 17
 Date 7/15, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by MSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 7/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14531AM OH1197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B21-481

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date: 07/15/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200513600
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date: 9-28-2017

4. Identification of System: PY-1B21, NUCLEAR STEAM SHUTOFF SYS.

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s): N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda Code Case(s) N/A

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001: EDITION 2003: Addenda N/A Code Case(s)

(e) Design Responsibilities: FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
AIR PACK	RA HILLER	82	N/A	N/A	N/A	REPLACEMENT	NO

7. Description of Work: PY-1B21F0022C/PY-1B21F0480. REPLACED THE 1 1/4" X 1 1/4" FEMALE FITTING (TRACE CODE D1DAX0526B) - MSIV AIRPACK.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 115 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT 20 17
 Date 7/16, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 7/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14531ANI OH1197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B33-138

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

NOP-CC-5703-05 Rev. 01.

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/12/2015
Name
76 South Main Street, Akron, OH 44308 Sheet 1 of 3
Address

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
Name
10 Center Road, Perry, Ohio 44081 200391180
Address (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By: PCI Energy Services, LLC Type Code Symbol Stamp NR
Name
One Energy Drive, Lake Bluff, Illinois 60044 Authorization No. 74
Address Expiration Date SEPT 16, 2015

4. Identification of System: PY-1B33, REACTOR RECIRCULATION SYSTEM

5. (a) Applicable Construction Code: ASME SEC III, CL1, 1974 Edition, WINTER 75 Addenda, NONE Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 ED / 2003 ADD.

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1B33	119	N/A	1985	REPLACEMENT	YES

7. Description of Work: REPLACED VALVES 1B33F0029 AND 1B33F0030 AND ASSOCIATED PIPING AS DETAILED IN THE REMARKS SECTION.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure 1037 psi Test Temperature 118 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks: REPLACED VALVES 1B33F0029 (S/N E-295P-1-3) AND 1B33F0030 (S/N E-295P-1-4). Applicable Manufacturer's Data Reports to be attached
VALVES, WITH REQUIRED PIPING AND UTILIZING WELD FILLER MATERIAL ASSEMBLY (S/N 1-B33-G-RRFC-1-RB) AND ADDITIONAL ITEMS AS DETAILED ON PCI NR-1 REPORTS 907582-074 AND 907582-076. INSTALLED BY PCI USING THEIR NR PROGRAM

NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI	
NOP-CC-5703-05 Rev. 01	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and this <u>REPLACEMENT</u> conforms to the rules of the ASME Code, Section XI. repair or replacement	
Type Code Symbol Stamp <u>NR</u>	
Certificate of Authorization No. <u>33</u>	Expiration Date <u>09-28-2017</u>
Signed <u><i>[Signature]</i></u> <u>SR. Nuc. Tech.</u> Date <u>JUNE 12</u> , 20 <u>15</u> <small>Owner or Owner's Designee, Title</small>	
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>OHIO</u> and employed by <u>HSD Global Standards</u> of <u>OH</u> have inspected the components described in this Owner's report during the period <u>2/11/15</u> to <u>6/22/15</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 the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
<u><i>[Signature]</i></u> Inspector's Signature	Commissions <u>14531A01 041197</u> National Board, State, Province, and Endorsements
Date <u>6/23</u> 20 <u>15</u>	

1B33-138
SHEET 2 of 3

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

CORRECTED COPY

1. Work performed by: PCI Energy Services, LLC 907582-074
(Print name, job no., etc.)
One Energy Drive, Lake Bluff, Illinois 60044

2. Owner: First Energy Nuclear Operating Company (FENOC)
(Print name)
10 Center Road, Perry, Ohio 44081

3. Name, address and identification of nuclear power plant: Perry Nuclear Power Plant, 10 Center Road, Perry, Ohio 44081
(Print name)

4. System: (G-33) Reactor Water Cleanup (RWCU) & (B-33) Reactor Recirculation

5a. Items that Required Repair, or Replacement Activities

No	Type of Item	Identification						Construction Code				Activity
		Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class	
1	Piping Assembly	PCI	1-G33-G-RWCU-19A-RB	N/A	N/A	N/A	2014	ASME / III / 1	1974 / Winter 1975	N/A	1	Replace
2	Piping Assembly	PCI	1-B33-G-RRFC-1-RB	N/A	N/A	N/A	2014	ASME / III / 1	1974 / Winter 1975	N/A	1	Replace
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

5b. Items Installed During Replacement Activities

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

6. ASME Code Section XI applicable for inservice inspection: 2001 2003 None
(Print Code Case(s))

7. ASME Code Section XI used for repairs or replacements: 2001 2003 None
(Print Code Case(s))

8. Construction Code used for repairs or replacements: 1974 Winter 1975 None
(Print Code Case(s))

9. Design responsibilities: First Energy Nuclear Operating Company (FENOC)
(Print name)

10. Tests conducted: hydrostatic pneumatic design pressure pressure N/A psi. Code Case(s): None

11. Description of work Fabrication of piping spool 1-G33-G-RWCU-19A-RB using PCI Quality Assurance Traveler 907582-ASSY1-01 Rev 0, PCI Weld Process Travelers 200004636-11 thru 20 Rev 0 and 200007476-22 thru 27 Rev 0, Weld Procedure Specification 1 MN-GTAW/SAW Rev 9, and NCR's 907582-01 and 02.
 The piping spool consisting of (1) 3" drain line made up of 10 - 3" single V butt welds (200004636-11 thru 20), and (1) 1 1/2" bypass line made up of 2 1 1/2" single V butt welds (200007476-22 & 27) and 4 - 2:1 unequal leg sockets welds (200007476- 23, 24, 25, and 26). All Visual Examination performed in accordance with PCI General Quality Procedure GQP 9.6 Rev 14. Liquid Penetrant Examination performed on all final welds using PCI General Quality Procedure GQP 9.7 Rev 16. Radiography performed on all final welds by PCI Vendor (Acuren) using Procedure RT-9 Rev 2.
 The following customer (FENOC) supplied materials used in the fabrication of piping spool 1-G33-G-RWCU-19A-RB: 2 pcs- 3" x 3" x 1-1/2" Reducing Tee, Schedule 160, SA234 WPB (HT# MUJW-1), 1 pc-3" Long Radius Elbow, Schedule 160, SA234 WPB (HT# P325D), 1 pc-3" x 2" Concentric Reducer, Schedule 160, SA234 WPB (HT# LJKW2), 1 - 3" 1500# MO Gate Valve, SA 105 (HT# BJ275), 1 - 1 1/2" 1500# Globe Valve, SA 105 (HT# 80BPB), 1 pc-1 1/2" 6000# 90 Degree Elbow, SA 105 (HT# C87155) (lot# 78532), 5 pcs-3" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 93-05537), 1 pc-2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 151234), 3 pcs-1 1/2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 292064), Weld Wire (ER 70S-2, 1/8" x 36", PCI # 3777, HT# 065915 and ER 70S-2, 3/32" x 36", PCI # 3778, HT# 065915) was Supplied by PCI. Welders M-1907, M1744, M939

Fabrication of piping spool 1-B33-G-RRFC-1-RB using PCI Quality Assurance Traveler 907582- ASSY2-01 Rev 0, PCI Weld Process Travelers 200391180-02 thru 04 Rev 0. PCI Weld Process Travelers 200391181-05 and 06 Rev 0 are a part of the assembly but are Non-Code welds and are not to be considered part of this NR-1 Data Report, Weld Procedure Specification 1 MN-GTAW/SAW Rev 9.
 The piping spool consisting of (1) 2" drain line made up of 5 - 2" 2:1 unequal leg sockets welds (200391180-02 thru 04) and (200391181-05 and 06 which are Non Code and not part of the NR activities). All Visual Examination performed in accordance with PCI General Quality Procedure GQP 9.6 Rev 14. Liquid Penetrant Examination performed on all final welds using PCI General Quality Procedure GQP 9.7 Rev 16.
 The following customer (FENOC) supplied materials were used in the fabrication of piping spool 1-B33-G-RRFC-1-RB: 1 pc-2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 974295), 1 pc-2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 131234), 1 - 2" 1500# Globe Valve, SA 105 (SN# E-295P-1-3), 1 - 2" 1500# Globe Valve, SA 105 (SN# E-295P-1-4), Weld Wire (ER 70S-2, 1/8" x 36", PCI # 3777, HT# 065915 and ER 70S-2, 3/32" x 36", PCI # 3778, HT# 065915) was Supplied by PCI. Welders M-1907, M1744, M939

12. Remarks: None

CERTIFICATE OF COMPLIANCE	
I, <u>Chad A Ankeny</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair or replacement activities described above conform to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No:	<u>NR-74</u> to use the "NR" stamp expires <u>September 16, 2015</u>
NR Certificate Holder	<u>PCI Energy Services LLC</u>
Date: <u>1/30</u> , 2015	Signed <u>[Signature]</u> Quality Assurance Engineer
CERTIFICATE OF INSPECTION	
I, <u>TODD WARD</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of: <u>ILLINOIS</u> and employed by: <u>MSB GLOBAL STANDARDS</u> of <u>HAROLD ST.</u>	
have inspected the repair or replacement described in the report on <u>01-30-15</u> and state that to the best of my knowledge and belief, this repair or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date: <u>1/30</u> , 2015	Signed <u>[Signature]</u> Commissions <u>AB11557 AB20 71903</u>

CORRECTED COPY 6-15-15
 FORM NR-1 REPORT OF REPAIR OR REPLACEMENT 1833-138
 TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS SHEET 3 of 3

1. Work performed by: PCI Energy Services, LLC 907582-076 R/1**
(Name of contractor/contractor) (P.O. box, phone, etc.)
One Energy Drive Lake Bluff, Illinois 60044 United States
 2. Owner: First Energy Nuclear Operating Company (FENOC) 10 Center Road, Perry, Ohio 44081
 3. Name, address and identification of nuclear power plant: Perry Nuclear Power Plant, 10 Center Road, Perry, Ohio 44081
 4. System: (G-33) Reactor Water Cleanup (RWCU) & (B-33) Reactor Recirculation

5a. Items that Required Repair or Replacement Activities

Identification								Construction Code			Activity	
No	Type of Item	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class	Repair/Replace
1	Valve Assembly	N/A	Valve - F0101RNU227	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
2	Valve Assembly	N/A	Valve - F0103ROV210	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
3	Piping Assembly	N/A	2" & 3" Piping between weld 200004636-10 and 200004636-21, including a 1 1/2" bypass line. Per DUN 09-0015-001-002.	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
4	Valve Assembly	N/A	Valve - F0029ROV211	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
5	Valve Assembly	N/A	Valve - F0030ROV211	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
6	Piping Assembly	N/A	2" Piping between weld 200391180-01 and 200391181-07. Per DUN 09-0015-001-001.	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
7**	U-bolt w/ Nuts	N/A	Spring Can 1G33H0078	N/A	N/A	N/A	N/A	ASME / III NF / 1	1974/ Winter 1975	N/A	1	Replace

5b. Items Installed During Replacement Activities

Identification								Construction Code			
Type of Item	Installed or Replaced 5a Item No.	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class
Piping Assembly	1,2,3	PCI	1-G33-G-RWCU-19A-RB	N/A	N/A	N/A	2014	ASME / III NB / 1	1974/ Winter 1975	N/A	1
Piping Assembly	4,5,6	PCI	1-B33-G-RRFC-1-RB	N/A	N/A	N/A	2014	ASME / III NB / 1	1974/ Winter 1975	N/A	1
U-bolt w/ Nuts**	7	Anvil International, Inc.	Spring Can 1G33H0078	N/A	N/A	N/A	2014	ASME / III NF / 1	1974/ Winter 1975	N/A	1

6. ASME Code Section XI applicable for inservice inspection: 2001 2003 None
(select) (select) (Date Code(s))
 7. ASME Code Section XI used for repairs or replacements: 2001 2003 None
(select) (select) (Date Code(s))
 8. Construction Code used for repairs or replacements: 1974 Winter 1975 None
(select) (select) (Date Code(s))
 9. Design responsibilities: First Energy Nuclear Operating Company (FENOC)
(select)
 10. Tests conducted: hydrostatic pneumatic design pressure pressure N/A psi. Code Case(s): None

11. Description of work Installation of piping spool 1-G33-G-RWCU-19A-RB, by means of weld numbers 200004636-10 and 200004636-21 using PCI Quality Assurance Travelers 907582-01 Rev.0 and 907582-02 Rev.2, PCI Weld Process Travelers 200004636-10 Rev.0 and 200004636-21 Rev.0, Weld Procedure Specification IMN-GTAW/SMAW Rev.9 and NCR 907582-06. All visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14, Liquid Penetrant Examination was performed on all final welds by PCI vendor WesDyne International using Perry Nuclear Power Plant site procedure NQI-0941 Rev.20. Radiography was performed on final welds by PCI vendor WesDyne International using WesDyne Procedure WDI-STD-1049 Rev.2.
Piping Spool piece was provided by customer (FENOC) and filler material, ER 70S-6, 3/32" x 36" (PCI#3845, HT#386272), 1/8" x 36" (PCI#3903, HT#386421) was supplied by PCI. Welders M-2126, M-1963, M-2130, M-1964, M-2088 and M-2071.

Installation of piping spool 1-B33-G-RRFC-1-RB, by means of weld numbers 200391180-01 and 200391180-07 using PCI Quality Assurance Travelers 907582-01 Rev.0 and 907582-02 Rev.2, PCI Weld Process Travelers 200391180-01 Rev.0 and 200391180-07 Rev.0 (Weld number 200391180-07 with associated weld process traveler number 200391180-07 Rev.0 is part of the assembly installation, but is a Non-Code weld and is not to be considered part of this NR-1 Data Report), Weld Procedure Specification IMN-GTAW/SMAW Rev.9 and NCR 907582-04. Visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14, Liquid Penetrant Examinations were performed on final weld by PCI vendor WesDyne International using Perry Nuclear Power Plant site procedure NQI-0941 Rev.20.
Piping Spool piece was provided by customer (FENOC) and filler material, ER 70S-6, 3/32" x 36" (PCI#3845, HT#386272), 1/8" x 36" (PCI#3903, HT#386421) was supplied by PCI. Welders M-2127, M-1964, M-2072, M-2088.

** R/I was to add a mechanically installed SA-36 U-Bolt (HT# 10069760) with two(2) SA-563 (HT# M0512) nuts that were installed in Spring can Assembly 1G33H0078 using using PCI Quality Assurance Traveler 907582-02 Rev.2

12. Remarks: Final system leakage test will be performed by FENOC.

CERTIFICATE OF COMPLIANCE			
I, <u>Chad A Ankeny</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair or replacement activities described above conform to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.			
National Board Certificate of Authorization No:	<u>NR-74</u>	to use the "NR" stamp expires	<u>September 16, 2015</u>
NR Certificate Holder	<u>PCI Energy Services LLC</u>		
Date:	<u>06/15</u> , <u>2015</u>	Signed	<u>[Signature]</u> Quality Assurance Engineer
CERTIFICATE OF INSPECTION			
I, <u>Steven Hoffmann</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of: <u>OHIO</u> and employed by: <u>HSB Global Standards</u> of <u>CT</u> have inspected the repair or replacement described in the report on <u>4/8</u> <u>2015</u> and state that to the best of my knowledge and belief, this repair or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.			
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.			
Date:	<u>6/21</u> , <u>2015</u>	Signed	<u>[Signature]</u> Commissions <u>14551 AND OH187</u>

1B33-139

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI NOP-CC-5703-04 Rev. 01							
1. Owner: <u>FirstEnergy Nuclear Generation, LLC</u>		Date <u>07/14/2015</u>		76 South Main Street, Akron OH 44308		Sheet <u>1</u> of <u>2</u>	
2. Plant: <u>Perry Nuclear Power Plant (PNPP)</u>		Unit <u>ONE</u>		10 Center Road, Perry, Ohio 44081		<u>200293215</u> (Repair Org. P.O. No., etc.)	
3. Work Performed By: <u>FirstEnergy Nuclear Operating Company PNPP</u>		Type Code Symbol Stamp <u>NR</u>		10 Center Road, Perry, Ohio 44081		Authorization No. <u>33</u> Expiration Date <u>9-28-2017</u>	
4. Identification of System: <u>PY-1B33, REACTOR RECIRCULATION SYSTEM</u>							
5. (a) Applicable Construction Code: <u>ASME SECTION III CLASS 1</u> , 1974 Edition NAME/SECTION/DIVISION/CLASS <u>WINTER</u> 1975 Addenda Code Case(s) *N/A							
(b) Construction Code used for repairs, modifications, or replacements: <u>1974</u> Edition <u>W/75</u> Addenda * Code Case(s)							
(c) ASME Code Section XI applicable for Inservice Inspection: <u>2001</u> Edition <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: <u>2001.EDITION</u> <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(e) Design Responsibilities <u>FENOC</u>							
6. Identification of Components Repaired, or Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PUMP	BYRON JACKSON	741-S-1281	N/A	N/A	1978	REPLACEMENT	YES
7. Description of Work: <u>PY-1B33C0001A. REPLACE SEAL CARTRIDGE ASSEMBLY S/N 318455 WITH REBUILT SEAL CARTRIDGE ASSEMBLY S/N 318456.</u>							
8. Test Conducted: Hydrostatic- <input type="checkbox"/> Pneumatic- <input type="checkbox"/> Nominal Operating Pressure- <input type="checkbox"/> Other- <input checked="" type="checkbox"/> Pressure <u>950</u> psi Test Temperature <u>122</u> degrees F Code Case(s) <u>N/A</u>							

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: WORK WAS NOT IDENTIFIED AS ASME PRESSURE RETAINING AT THE TIME OF ORDER GENERATION. A VT-2 EXAM WAS NOT ASSIGNED AND A CODE DATA REPORT WAS NOT GENERATED UPON COMPLETION OF THE WORK. TEST PRESSURE AND TEMPERATURE TAKEN FROM OPERATIONS ISLT DOCUMENTATION IN THE WORK PACKAGE. THE SEAL ASSEMBLY HAS SUBSEQUENTLY BEEN REPLACED AT THIS LOCATION. THE ABOVE ISSUES WERE DOCUMENTED IN THE FENOC CORRECTIVE ACTION PROGRAM CR 2015-09545

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 7/14, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 7/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14551AVI OH1197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

MR126707 1B33-139 SHEET 2 of 2

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

Pg. 1 of 2

1. Manufactured and certified by ESI/EP INTERNATIONAL, INC. PESP DIV. 148 ANGLES OPERATIONS 2500 E. VERNON AVE., VERNON, CA 90058
(Name and address of NPT Certificate Holder)

2. Manufactured for THE CLEVELAND ELECTRIC ILLUMINATING CO. 10 CRYZER ROAD, FERRY, OHIO 44081
(Name and address of Purchaser)

3. Location of installation FERRY NUCLEAR POWER PLANT, UNIT 1 10 CRYZER ROAD, DOCK NUMBER 1, NORTH FERRY, OHIO 44081
(Name and address)

4. Type: LC02168 REV. A SA-182 CR. P316 75,000 PSI N/A 1996
(Drawing no.) (Mat'l. spec. no.) (Bolt strength) (ICRN) (Year built)

5. ASME Code, Section III, Division 1: 1971 SUBMER 1973 1 N/A
(Edition) (Issuance date) (Class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A

7. Remarks: ESI/EP JOB NO: 95-EE-2542 DESCRIPTION: S-7500 SEAL CARTRIDGE ASSEMBLY.
* DESIGN, MATERIAL, FABRICATION AND EXAMINATION IN ACCORDANCE WITH 1983 EDITION SUBMER 1984 ADDENDA.

8. Nom. thickness (in.) 2.525 Min. design thickness (in.) 2.500 Dia. ID (ft & in.) 1' 7.500" Length overall (ft & in.) 0' 3.105"

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 318456	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1650 psi. Temp. 575 °F. Hydro. test pressure 2065 PSI / 60° MIN at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.
 (12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/81)

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

Certificate Holder's Serial No. 318456 through N/A

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>N/A</u> <small>(when applicable)</small>	P.F. State	<u>N/A</u>
Design report* certified by	<u>N/A</u> <small>(when applicable)</small>	P.F. State	<u>N/A</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (what) <u>H-7500 SEAL CARTRIDGE ASSEMBLY</u>			
conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	<u>H-1131</u>	Expires	<u>JUNE 10, 1996</u>
Date <u>12/19/96</u>	Name <u>KE/TP INTERNATIONAL, INC.</u> <small>(NPT Certificate Holder)</small>	Signed	<u>J. Michael Nance</u> <small>(Authorized Representative)</small>
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>CALIFORNIA</u> and employed by <u>ARCELOCEL METAL INSURANCE CO., PACIFIC BRANCH, ENGINEERING ASSOCIATION</u>			
of <u>IRVINE, CALIF.</u> have inspected these items described in this Data Report on <u>01/12/96</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>01/12/96</u>	Signed <u>[Signature]</u> <small>(Authorized Inspector)</small>	Commissions	<u>CA1864, NBIC-15</u> <small>(N.B. Bd. Unit, endorsement and state or prov. and no.)</small>

1B33-140

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/14/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200477742
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1B33, REACTOR RECIRCULATION SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W775 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PUMP	BYRON JACKSON	741-S-1281	N/A	N/A	1978	REPLACEMENT	YES

7. Description of Work: PY-1B33C0001A, REPLACE SEAL CARTRIDGE ASSEMBLY S/N 318456 WITH
REBUILT SEAL CARTRIDGE ASSEMBLY S/N 318455.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure 1045 psi Test Temperature 124.5 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp" expires 28 SEPT 20 17
Date 7/14, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 7/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14551AUL 041197
(inspector) (National Board (include endorsements, and jurisdiction, and no.))

1833-14U
SHEET 2 of 2
MRI 26707

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

Pg. 1 of 2

1. Manufactured and certified by ES/EP INTERNATIONAL, INC. 4400 DEV. LOS ANGELES OPERATIONS 2300 E. VESPER AVE., VESPER, CA 90058
(Name and address of NPT Certificate Holder)

2. Manufactured for THE CLEVELAND ELECTRIC MANUFACTURING CO. 10 CROWER ROAD, FINDLY, OHIO 44081
(Name and address of Purchaser)

3. Location of installation FINDLY NUCLEAR POWER PLANT, UNIT 1 10 CROWER ROAD, DOCK NUMBER 1, FINDLY, OHIO 44081
(Name and address)

4. Type: L002168 E2H-A SR-182 CR. F316 75,000 PSI N/A 1995
(Drawing no.) (Spec'l. case no.) (Nominal strength) (CRN) (Year built)

5. ASME Code, Section III, Division 1: 1971 SUBSER 1973 1 N/A
(Edition) (Subser date) (Class) (Code Case no.)

6. Fabricated in accordance with Const. Spcs. (Div. 2 only) N/A Revision N/A Date N/A
(Div. 2 only) (Rev.)

7. Remarks: ES/EP JOB NO: 95-DB-2541 COMPLIANCE: D-7500 SEAL CARTRIDGE ASSEMBLY.

*** DESIGN, MATERIAL, FABRICATION AND EXAMINATION IN ACCORDANCE WITH 1942 EDITION SUBSER 1984 ADDENDA.**

8. Nom. thickness (in.) 2.625 Min. design thickness (in.) 2.500 Dia. ID (ft & in.) 1' 7.500" Length overall (ft & in.) 0' 3.105"

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 318455	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1650 psi. Temp. 575 °F Hydro test pressure 2055 PSI / 60° MIN of temp °F
(When applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is B1, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form (12/88)

This form (100040) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300 Fairfield, NJ 07007 2300

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

Certificate Holder's Serial Nos. 318455 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
Design report* certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (those) H-7500 SEAL CARTRIDGE ASSEMBLY conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. H-1131 Expires JUNE 10, 1996

Date 01/12/96 Name H/IF INTERNATIONAL, INC. Signed J. Michael Mansel

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 COMMERCE and employed by HARRISON FURNACE CO., FACTORY MUTUAL ENGINEERING ASSOCIATION of HARRISBURG, MISS. have inspected these items described in this Data Report on 01/12/96 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 01/12/96 Signed [Signature] Commissions CA1866, NBR-15



1C41-043

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/04/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 4

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200502034
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1C41, STANDBY LIQUID CONTROL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1971 Edition
NAME/SECTION/DIVISION/CLASS.
WINTER, 1972 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1971 Edition W/72 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION, 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	CONAS CORP.	N/A	113	N/A	1975	REPLACEMENT	YES

7. Description of Work: PY-1C41F0004B, REPLACE PRIMER/TRIGGER ASSEMBLY WITH KIT S/N GE-943-EQ USING SUBASSEMBLY S/N 8604 AND INLET FITTING 8629.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NBP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 29 SEPT, 20 17
 Date 5/5, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steen Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSD Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/5, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/5, 20 15 Signed [Signature] Commissions 14551441 OH152
(inspector) (National Board (include endorsement), and jurisdiction, and no.)

1041-043
Sheet 2 of 4

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

009

Pg. 1 of 2

1. Manufactured and certified by Miron Technologies (Conax Nuclear), Inc. 402 Semwell Drive, Chateaufort, NY 14225
(name and address of NPT Certificate Holder)

2. Manufactured for GE Nuclear Energy, 3501 Castle Hayne Road, Wilmington, NC 28401
(name and address of Purchaser)

3. Location of installation Unknown
(name and address)

4. Type: N2000, Rev. G SA475004557 75 KSI N/A N/A 2014
(drawing no.) (part spec. no.) (pressure) (CRN) (year built)

5. ASME Code, Section III, Division 1: 77 Summer 77 1 N/A
(edition) (addenda code) (stress) (Code Case no.)

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

7. Remarks: Trigger Body Subassembly for explosive actuated valve replacement kit for Standby Liquid Control System
Para. NB-2121 (b) is applicable to ram. Press fit/seat on .328 & .4375 diameters. Overall subassembly length is 2.5".
Pressure Test at 2600 psi for 10 minutes.

8. Nom. thickness (in.) See remarks Min. design thickness (in.) See remarks Dia. ID (ft & in.) See remarks Length overall (ft & in.) See remarks

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 8603	8603	(26) 8620	8620
(2) 8604	8604	(27) 8621	8621
(3) 8605	8605	(28) 8622	8622
(4) 8606	8606	(29) 8623	8623
(5) 8607	8607	(30) 8624	8624
(6) 8608	8608	(31) 8625	8625
(7) 8609	8609	(32) 8626	8626
(8) 8610	8610	(33) 8627	8627
(9) 8611	8611	(34) 8628	8628
(10) 8612	8612	(35) 8629	8629
(11) 8613	8613	(36) 8630	8630
(12) 8614	8614	(37) 8631	8631
(13) 8615	8615	(38) 8632	8632
(14) 8616	8616	(39) 8633	8633
(15) 8617	8617	(40) 8634	8634
(16) 8618	8618	(41) 8635	8635
(17) 8619	8619	(42) 8636	8636
(18) 8620	8620	(43) 8637	8637
(19) 8621	8621	(44) 8638	8638
(20) 8622	8622	(45) 8639	8639
(21) 8623	8623	(46) 8640	8640
(22) 8624	8624	(47) 8641	8641
(23) 8625	8625	(48) 8642	8642
(24) 8626	8626	(49) 8643	8643
(25) 8627	8627	(50) 8644	8644

10. Design pressure 1600 psi. Temp. 160 °F. Hydro test pressure See Remarks at temp. °F
(when applicable)

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

WD1-19740NE-A1

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

010

Certificate Holder's Serial Nos. 6609 through 8627

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>George I. Skoda</u> <small>(when applicable)</small>	P.E. State	<u>CA</u> Reg. no. <u>15847</u>
Design report certified by	<u>Michael A. Francioli</u> <small>(when applicable)</small>	P.E. State	<u>NY</u> Reg. no. <u>078456-1</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these)		Trigger Body	
conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	<u>N-1850</u>	Expires	<u>September 3, 2016</u>
Date	<u>4/15/2014</u>	Name	<u>Mirton Technologies (Conas Nuclear), Inc.</u>
		Signed	<u>Paul E. Cloughon</u> <small>(authorized representative)</small>
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>New York</u>		<u>NSB Global Standards</u>	
and employed by			
of <u>Hartford, CT</u> have inspected these items described in this Data Report on <u>ASME 2014</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 data 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>01-25-2014</u>	Signed	<u>Paul E. Cloughon</u> <small>(authorized representative)</small>
		Commissions	<u>NB 10864AN NY 505F</u> <small>(part 84 part 600.2(a)(2)(iii) and state or prov. and no.)</small>

W01-19740NE-A1

1041-047
Sheet 3 of 4

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

011

Pg. 1 of 2

1. Manufactured and certified by Miron Technologies (Conax Nuclear), Inc. 402 Sonwill Drive, Cheektowaga, NY 14226
(Name and address of NPT Certificate Holder)

2. Manufactured for GE Nuclear Energy, 3901 Castle Hayne Road, Wilmington, NC 28401
(Name and address of Purchaser)

3. Location of installation Unknown
(Plant and address)

4. Type: N38017 Rev. F SM479J04ASST 76 KSI N/A N/A 2014
(Drawing no.) (ASME Code no.) (Design strength) (CRN) (Year built)

5. ASME Code, Section III, Division 1: 77 Summer 77 1 N/A
(Edition) (Addenda sheet) (Class) (Code Case no.)

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

7. Remarks: Inlet Fitting for explosive actuated valve replacement kit for Standby Liquid Control System

Pressure Test at 2800 psi for 10 minutes

8. Nom. thickness (in.) .040" Min. design thickness (in.) .031" Dia. ID (in.) .618" Length overall (in.) 2.245"

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 8528	8528	(26)	
(2) 8529	8529	(27)	
(3) 8530	8530	(28)	
(4) 8531	8531	(29)	
(5) 8532	8532	(30)	
(6) 8533	8533	(31)	
(7) 8534	8534	(32)	
(8) 8535	8535	(33)	
(9) 8536	8536	(34)	
(10) 8537	8537	(35)	
(11) 8538	8538	(36)	
(12) 8539	8539	(37)	
(13) 8540	8540	(38)	
(14) 8541	8541	(39)	
(15) 8542	8542	(40)	
(16) 8543	8543	(41)	
(17) 8544	8544	(42)	
(18) 8545	8545	(43)	
(19) 8546	8546	(44)	
(20) 8547	8547	(45)	
(21) 8548	8548	(46)	
(22) 8549	8549	(47)	
(23) 8550	8550	(48)	
(24) 8551	8551	(49)	
(25) 8552	8552	(50)	

10. Design pressure 1600 psi Temp. 160 °F. Hydro. test pressure See Remarks at temp. °F
(if not applicable)

*Supplemental information in the form of NPS Attachments, or drawings may be used provided it is in accordance with the provisions of the ASME Code, Section III, Division 1. (1) Information in items 2 and 3 on this Data Report is subject to attachment, (2) each sheet is numbered and the number of sheets is recorded at the top of this form.

W01-19740NE-A1

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

012

Certificate Holders Serial Nos. 6528 through 6552

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>George I. Skoda</u> <small>(When Applicable)</small>	P.E. State	<u>CA</u> Reg. no. <u>15047</u>
Design report certified by	<u>Michael A. Francioli</u> <small>(When Applicable)</small>	P.E. State	<u>NY</u> Reg. no. <u>076450-1</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>Initial Fitting</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	<u>N-1850</u>	Expires	<u>September 3, 2016</u>
Date	<u>4/15/2014</u>	Name	<u>Minion Technologies (Comae Nuclear), Inc.</u> <small>(NPT Certificate Holder)</small>
		Signed	<u>Curt Elavich</u> <small>(Authorized Representative)</small>
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>New York</u> and employed by <u>HSB Global Standards</u> of <u>Hartford, CT</u> have inspected these items described in this Data Report on <u>4/15/2014</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 data shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in the 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>04-15-2014</u>	Signed	<u>[Signature]</u> <small>(Inspector)</small>
		Commissions	<u>NB 10964AN NY 5057</u> <small>(National and State or Provincial)</small>

W01-19740NE-A1

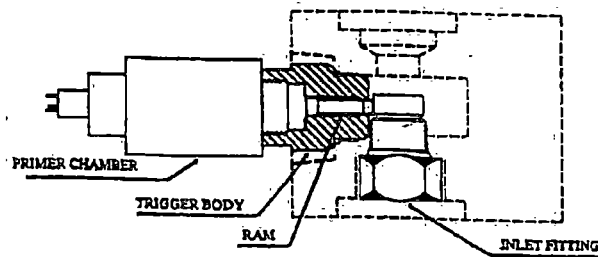
1041-043
Sheet 4 of 4



Tabulation
OF
Materials

015

VALVE REPLACEMENT KIT
P/N N27006-03



Trigger Body	Ram	Primer Chamber	Inlet Fitting
P/N: N38018-01	P/N: N-39012-01	P/N: N38062-01	P/N: N38017-01B
Vendor: Energy & Pro.	Vendor: Carpenter Tech	Vendor: Energy & Pro.	Vendor: Energy & Pro.
P.O.: P93-S-1008N	P.O.: N91896	P.O.: P93-S-1008N	P.O.: P83-S-1008N
Heat No.: 422503	Heat No.: 53851	Heat No.: 422503	Heat No.: 422503
Control No.: 29092	Control No.: 28287	Control No.: 28248	Control No.: 27937
Trigger Subassembly N.B.S/N: 8604		SEP S/N: 2179	N.B. S/N: 8629

Customer: General Electric Nuclear Energy
 Customer P.O.: 437072769
 Conax Nuclear S.O.: 828400
 Item No.: 005
 MPL NO.: C41-FD04
 G.E. S/N: G.E.-543-EQ

Conax Nuclear Quality: David P. Date: 12/1/2014

W01-19740NE-A1

1E12-332

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 04/24/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200570447
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1728, N-224, N-242, N-272, N275, N282,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	N/A	REPLACEMENT	YES

7. Description of Work: PY-1E12H0322, REPLACED PSA-10 SNUBBER S/N 8569 WITH PSA-10 SNUBBER S/N 44588

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17

Date 5/02, 20 15 Signed FENOC-PNPP Tobias Weather SR QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 5/3, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/3, 20 15 Signed Steven Hoffmann Commissions HSSTANI 01197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E12-333

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
As required by the Provisions of the ASME Code Section XI							
NOP-CC-5703-04 Rev. 01							
1. Owner: <u>FirstEnergy Nuclear Generation, LLC</u>		Date <u>04/26/2015</u>		Sheet <u>1</u> of <u>2</u>			
<u>76 South Main Street, Akron OH 44308</u>							
2. Plant: <u>Perry Nuclear Power Plant (PNPP)</u>		Unit <u>ONE</u>		200510258			
<u>10 Center Road, Perry, Ohio 44081</u>				<i>(Repair Org. P.O. No., etc.)</i>			
3. Work Performed By: <u>FirstEnergy Nuclear Operating Company PNPP</u>		Type Code Symbol Stamp <u>NR</u>		Authorization No. <u>33</u>			
<u>10 Center Road, Perry, Ohio 44081</u>				Expiration Date <u>9-28-2017</u>			
4. Identification of System: <u>PY-1E12, RESIDUAL HEAT REMOVAL</u>							
5. (a) Applicable Construction Code: <u>ASME SECTION III CLASS 2</u> , 1974 Edition							
<small>NAME/SECTION/DIVISION/CLASS</small>							
<u>WINTER</u> 1975 Addenda Code Case(s) * <u>1644-5,1728,N-224,N-242,N-272,N-275,N-282,</u>							
<u>N-413</u>							
(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition <u>W/75</u> Addenda * Code Case(s)							
(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: <u>2001,EDITION</u> <u>2003</u> Addenda <u>N/A</u> Code Case(s)							
(e) Design Responsibilities <u>FENOC</u>							
6. Identification of Components Repaired, or Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1985	REPLACEMENT	YES
7. Description of Work: <u>PY-1E12F0055B, REPLACE RELIEF VALVE S/N 6 WITH RELIEF VALVE S/N 5.</u>							
8. Test Conducted: Hydrostatic- <input type="checkbox"/> Pneumatic- <input type="checkbox"/> Nominal Operating Pressure- <input checked="" type="checkbox"/> Other- <input type="checkbox"/>							
Pressure ** _____ psi Test Temperature ** _____ degrees F Code Case(s) <u>N/A</u>							

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NCP-CC-5703-04 Rev. 01

9. Remarks: **INLET PRESSURE FOR VT-2 EXAM 156 PSIG. OUTLET PRESSURE FOR VT-2 EXAM 50 PSIG.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17

Date 5/02, 20 15 Signed FENOC-PNPP Robert Robinson SR QUALITY TEAM
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Stella Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSA Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/3, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/3, 20 15 Signed Stella Hoffmann Commissions 14551A01 OH197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E12-333
Page 2 of 2

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

Pg. 1 of 2

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

2. Manufactured for FirstEnergy Corporation, 10 Center Rd., Perry, OH
(name and address of Purchaser)

3. Location of Installation Perry Nuclear Power Plant, 10 Center Rd., Perry, OH
(name and address)

4. Valve 76H-013 Orifice size 2.94 (in.) Nom. Inlet size 4 (in.) Outlet size 6 (in.)
(Model no., series no.)

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1975 (addenda date) 2 (class) None (Code Case no.)

6. Type Spring 485 (set pressure, psig) N/A (blowdown, psi) 450°F (rated temp) 1100 (hydro. test, psig, inlet) at Ambient °F
(spring, pilot or power operated)

7. Identification 5 (Cert. Holder's serial no.) N/A (CRN) 76H-013 Rev. D (drawing no.) N/A (Nat'l. Bd. no.) 2007 (year built)

8. Control ring settings Not Applicable

9. Pressure retaining items:

	Serial No. Or Identification	Mat'l. Spec. Including Type or Grade	Tensile Strength
Body	S/N 1	SA105	70 ksi
Bonnet or Yoke			
Support Rods			
Nozzle Seat	S/N 7	SA479 316L	70 ksi
Disk	S/N 11	SA564 630 H1100	140 ksi
Spring Washers			
Adjusting Screws			
Spindle			
Spring			
Bolting	Heat # 7244720	SA193 B7	125 ksi
Other Items			

10. Relieving capacity 3.442gpm@10% overpressure as certified by the National Board N/A (date)

11. Remarks: Outlet Flange S/N 1 SA105 70 ksi
Cap S/N 2 SA216 WCB 70 - 95 ksi

CERTIFICATION OF DESIGN

Design Specification certified by John S. Holton P.E. State PA Reg. No. 027024 E

Design Report certified by Not applicable P.E. State - Reg. No. -

CERTIFICATE OF COMPLIANCE

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

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

Date 1/28/2007 Name Target Rock Signed [Signature]
(NV Certificate Holder) R. E. Glazier, QA Manager
(authorized representative)

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in Items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.
(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRINT 6/93

FORM NV-1 (BACK - Pg. 2 of 2)

Certificate Holder's Serial No. 5

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New York and employed by OneBeacon America Insurance Company of Boston, MA have inspected the pump, or valve, described in this Data Report on 2/28/07, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 2/28/07 Signed [Signature] Commissions NY 2669
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E12-334

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/03/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200566614
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1644-5,1728,N-224,N-242,N-272,N-275,N-282,N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E12F0053A, REPLACE 8" CHECK VALVE S/N 1-55471-A WITH 8" DUO CHECK VALVE S/N 2-51908-A.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure 162 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used; provided (1) size is 8.1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17.
 Date 5/3, 20 15. Signed FENOC-PNPP [Signature] SR. QUALITY TECH.
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/5, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/5, 20 15 Signed [Signature] Commissions 14551A01 01/11/97
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

FORM NPV-1 (Back - Pg. 2 of 3)

Certificate Holder's Serial No. 251605

- 8. Design conditions: 500 psi 480 °F of valve pressure class 300 (1)
(pressure) (temperature)
- 9. Cold working pressure 760 psi at 100°F
- 10. Hydrostatic test 1175 psi Disk differential test pressure 825 psi
- 11. Remarks: Pin Retainers SA 479-010 HYD: 71947-786 123D

CERTIFICATION OF DESIGN

Design specification certified by Hiyam R. Reppert P.E. State PA Reg. no. 24928-E
(when applicable)

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-3695 Expires 6-13-04

Date 5/12/04 Name Wyer Valves and Controls USA, Inc. Signed [Signature]
(Certificate Holder) (Certificate Holder)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of MA and employed by HERCI of Hartford CT have inspected the pump, or valve, described in this Data Report on 5/13/04 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 5/13/04 Signed [Signature] Commission 142161
(Authorized Inspector) (State or Province)

(1) For manually operated valves only

1E12-335

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/05/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200565856
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 Edition 1974
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1728, N-224, N-242, N-272, N-275, N-282,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E12F0063B, REPLACE 8" CHECK VALVE SERIAL NUMBER 1-00441-10 WITH 8" DUO CHECK VALVE S/N 2-52969-B.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 156 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS.
As required by the Provisions of the ASME Code Section XI

NBP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 5/5, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMAN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSD Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/12, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/12, 20 15 Signed [Signature] Commissions 11537 AM OH1197
(inspector) (National Board [include endorsements], and jurisdiction, and no.)

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

Certificate Holder's Serial No. 2-52865-B

8. Design conditions 740 psi 100 °F or valve pressure class 300 (1)
(pressure) (temperature)

9. Cold working pressure 740 psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi

11. Remarks: Pin Retainers SA 478-410 HT# : 504420 TR# 151D

CERTIFICATION OF DESIGN

Design specification certified by Hiram R. Record P.E. State PA Reg. no. 24928-E
(when applicable)
 Design report certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2606 Expires 6-13-07

Date 9/29/06 Name WEIR VALVES & CONTROLS USA INC. Signature [Signature]
(N Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by HISBGT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 9/29/06 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 9/29/06 Signed [Signature] Commission MA165T A.B.N.I.
(Authorized Inspector) (Mat. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

1E12-336

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/06/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit: ONE
10 Center Road, Perry, Ohio 44081 200566733
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT-REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 Edition 1974
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1728, N-224, N-242, N-272, N-275, N-282,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E12F0063C, REPALCE 8" CHECK VALVE S/N 2-55417-A WITH 8" DUO CHECK VALVE S/N 3-51001-A

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure 138 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
Date 5/6, 20 15 Signed: FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/11, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/11, 20 15 Signed [Signature] Commissions WESTERN OHIO 197
(inspector) (National Board (include endorsements, and jurisdiction, and no.)

FORM NPV-1 (Back - Pg. 2 of 3)

Certificate Holder's Serial No. 3-51001-A

8. Design conditions 500 psi 480 °F or valve pressure class 300 (1)
(pressure) (temperature)
9. Cold working pressure 740 psi at 100°F
10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi
11. Remarks: Pin Retainers SA 478-110 HT# - 150000 TRB 1170

CERTIFICATION OF DESIGN			
Design specification certified by	<u>Hugh P. Repper</u>	P.E. State	<u>PA</u> Reg. no. <u>24928-E</u>
	<small>(when applicable)</small>		
Design report certified by	<u>N/A</u>	P.E. State	<u>N/A</u> Reg. no. <u>N/A</u>
	<small>(when applicable)</small>		

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.	<u>N-2898</u>	Expires	<u>6-1-2004</u>
Date	<u>11/29/02</u>	Name	<u>Atwood & Merrill Co. Inc.</u> <small>(If Certificate Holder)</small>
		Signed	<u>[Signature]</u> <small>(Authorized representative)</small>

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>New York</u> and employed by <u>HSBCT of Hartford, CT</u> have inspected the pump, or valve, described in this Data Report on <u>11-22-02</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			
Date	<u>11-22-02</u>	Signed	<u>[Signature]</u> <small>(Inspector)</small>
		Commission	<u>NY 5264 N/A B I N S</u> <small>(List full (incl. endorsement) state or prov. and no.)</small>

(1) For manually operated valves only

1E12-337

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/23/2015
76 South Main Street, Akron OH 44308. Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200560197
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp **NR**
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1644-S,1728,N-224,N-242,N-272,N-275,N-282,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E12F0086. REPLACE 6" CHECK VALVE S/N 2-62969-A WITH 6" CHECK VALVE S/N 1-00807-10.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 162 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 5/23, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steve Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSA Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/26, 20 15 Signed [Signature] Commissions 14531ANI OHIO 2
(Inspector) (National Board (include endorsements), and jurisdiction, and no.)

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

Certificate Holder's Serial No. 1-00807-10

B. Design conditions 740 psi 100 °F or valve pressure class 300
(pressure) (temperature)

6. Cold working pressure 740 psi at 100°F

10. Hydrostatic test 1126 psi Disk differential test pressure 825 psi

11. Remarks:

Pin Retainers SA 479-416 HTA A1058 TR 389D

CERTIFICATION OF DESIGN

Design specification certified by Hyun B. Reepert P.E. State PA Reg. no. 24928-E
Design report certified by N/A P.E. State N/A Reg. no. N/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-2806 Expires 06/13/2018

Date 11/14/17 Name WEIR VALVES AND CONTROLS USA, INC. Signed [Signature]
(Certificate holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by HSR GLOBAL STANDARDS of Hartford, CT have inspected the pump, or valve, described in this Data Report on 11/14/17 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 11/14/17 Signed [Signature] Commission 1111111111
(Authorized Inspector) (National Board Number and Endorsement)

(7/11)

1E12-338

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/14/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200568566
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1728, N-224, N-242, N-272, N-275, N-282, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E12F0605B, REPLACED EXISTING FASTENERS FOLLOWING VALVE REINSTALLATION AFTER LLRT AND BLIND FLANGE REMOVAL AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: INSTALLED (5) 3/4" - 10 X 5 3/4" SA-193 STUDS (H/N P511), (3) 3/4" - 10 X 5" SA-193 STUDS (H/N 04A7), AND (24) 3/4" - 10 HEAVY HEX NUTS (H/N 10V8).

VT-2 EXAM NOT REQUIRED FOR FASTENER REPLACEMENT IAW INTERPRETATION XI-1-89-08

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17

Date 7/14, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMANN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO

and employed by HSB Global standards of CT have

inspected the repair, modification or replacement described in this report on 7/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14537ANI 04197
(Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E12-338

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/14/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200510243
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL	RC-73	831	N/A	1982	REPLACEMENT	YES

7. Description of Work: PY-1E12F0041C, REPLACE EXISTING DISC WITH NEW DISC (S/N L5672-2) AND TACK WELD RETAINING PIN UTILIZING 3/32" E-7D18 (H/N 53129D7402) AND ER70S-2 (H/N C-8046)

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: ALL WELDING AND REPLACEMENT ITEMS INTERNAL TO VALVE, VT-2 NOT REQUIRED.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17

Date 7/14, 20 15 Signed FENOC-PNPP Tobias J Kostner SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSD Global Standards of CT have inspected the repair, modification or replacement described in this report on 7/16, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed Steven Hoffmann Commissions 1451 ANL 041197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E12-339
SHEET 2 of 2

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

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 S. Saunders St. Raleigh, NC 27603
(Name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp., PO Box 6100, Johnstown, PA 15907
(Name and address of purchaser)

3. Location of Installation Perry Nuclear Power Plant, 10 Center Road, Perry OH 44601
(Name and address)

4. Type D82-244D1-18 Rev. J SA-105 70 KSI N/A 2011
(drawing no.) (material spec. no.) (nominal strength) (CRN) (year built)

5. ASME Code, Section III, Division 1 1974 Winter 1975 1 N/A
(edition) (issuance date) (class) (Code Case no.)

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

7. Remarks SO # 63485 - Disk for 12" Piston Check Valve

8. Nom. thickness 4.25" Min. design thickness 1.53" Diameter ID N/A Length overall N/A

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

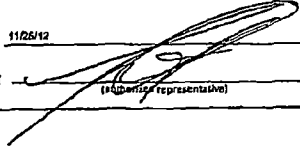
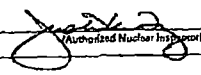
Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)		(26)	
(2)	L5672-1	(27)	
(3)	L5672-2	(28)	
(4)	L5672-3	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1421 Temperature 573 Hydro. test pressure N/A at temp. N/A
(when applicable)

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

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. L5672-1 through L5672-3

CERTIFICATION OF DESIGN			
Design specifications certified by	<u>Francis C. Rosch, Jr.</u> <small>(when applicable)</small>	P.E. State	<u>PA</u> Reg. no. <u>002265-E</u>
Design report* certified by	<u>N/A</u> <small>(when applicable)</small>	P.E. State	<u>N/A</u> Reg. no. <u>N/A</u>
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>Parts</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	<u>N-1563</u>	Expires	<u>11/26/12</u>
Date	<u>7/22/11</u>	Name	<u>FLOWSERVE CORPORATION</u> <small>(NPT Certificate Holder)</small>
		Signed	 <small>(Authorized representative)</small>
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>NC</u> and employed by <u>NSB CT</u> of <u>HARTFORD, CT</u> have inspected these items described in this Data Report on <u>7/27/11</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>7/28/11</u>	Signed	 <small>Authorized Nuclear Inspector</small>
		Commissions	<u>NB13720ANI NC1549</u> <small>(National Bd. (incl. endorsements), and state or prov. and no.)</small>

1E12-340

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 07/15/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200510242
(Repair Org. P.O. No., etc.)
3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017
4. Identification of System: PY-1E12, RESIDUAL HEAT REMOVAL
5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A
- (b) Construction Code used for repairs, modifications, or replacements: 1974 W75 *
Edition Addenda Code Case(s)
- (c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)
- (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)
- (e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL	RC-72	829	N/A	1982	REPLACEMENT	YES

7. Description of Work: PY-1E12F0041B. REPLACE EXISTING VALVE DISC WITH 12" DISC ASSEMBLY (S/N P3364/2). WELDED LOCK PIN TO DISC UTILIZING WELD FILLER E7018 3/32" (H/N 5312907402.
8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT 20 17
 Date 7/15, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by PSA Global Standards of CT have inspected the repair, modification or replacement described in this report on 7/15, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 7/16, 20 15 Signed [Signature] Commissions 14551A01 04197
(inspector) (National Board (include endorsements), and jurisdiction, end no.)

1E/2-340
SHEET 2 of 2

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

Pg. 1 of 2

1. Manufactured and certified by Flowsolve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp., PO BOX 6100, Johnstown, PA 15907
(name and address of purchaser)

3. Location of installation Perry Nuclear PP, Perry, OH 44081
(name and address)

4. Type DB2-24401-18 RJ SA105 70 KSI N/A 2013
(drawing no.) (material spec. no.) (brake strength) (CFR) (year built)

5. ASME Code, Section III, Division 1 1974 WINTER 1975 1 N/A
(edition) (Addenda (if applicable) (date)) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(sec.)

7. Remarks DISK ASSY FOR 12" GLOBE CHECK VALVE
SO 100597-01

8. Nom. thickness 4.25 in Min. design thickness 1.53 in Diameter ID N/A Length overall N/A

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

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>F3364/2</u>	<u>N/A</u>	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

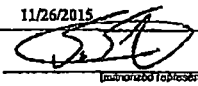
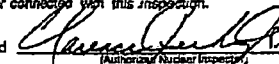
10. Design pressure 1421 psi Temperature 573° F Hydro. test pressure N/A at temp. N/A
(when applicable)

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

(07/10)

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. F3364/2 through N/A

CERTIFICATION OF DESIGN			
Design specifications certified by <u>FRANCIS C. ROSCH JR.</u> <small>(when applicable)</small>	P.E. State <u>PA</u>	Reg. no. <u>002055-E</u>	
Design report certified by <u>N/A</u> <small>(when applicable)</small>	P.E. State <u>N/A</u>	Reg. no. <u>N/A</u>	
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) <u>PARTS</u> conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No. <u>N-1563</u>	Expires <u>11/26/2015</u>		
Date <u>3/30/13</u>	Name <u>Flowsolve Corporation</u> <small>(NPT Certificate Holder)</small>	Signed 	<small>(authorized representative)</small>
CERTIFICATE OF INSPECTION			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>HSB CT</u> of <u>Hartford, CT</u> have inspected these items described in this Data Report on _____ 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>3/30/2013</u>	Signed 	Commission <u>NA12280 AN E IS</u>	<small>(National Board Number and Endorsement)</small>

(07/11)

1E21-049

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 01/15/2014
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200367678
(Repair Orig. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2014

4. Identification of System: PY-1E21, LOW PRESSURE CORE SPRAY

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N-242, N-224, N-272, N-413, 1644-5, 1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E21	85	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E21C0002, REPLACE WATER LEG PUMP (MINUS CASING) 1A021 WITH WATER LEG PUMP (MINUS CASING) 1A017.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 8.73 psi Test Temperature NOT degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS <small>As required by the Provisions of the ASME Code Section XI</small>	
<small>NOP-CC-5703-04 Rev. 01</small>	
9. Remarks: _____ _____ _____	
<p style="text-align: center;"><u>NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.</u></p>	
<p>Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.</p>	
CERTIFICATE OF COMPLIANCE	
I, <u>David B. Prosser</u> certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No. <u>33</u> to use the "NR" stamp expires <u>28 SEPT 2014</u>	
Date <u>23 Jan 2014</u> Signed <u>FENOC-PNPP</u> <u>David B. Prosser</u> <small>(name of repair organization) (authorized representative) (title)</small>	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, <u>Dean S. Niznik</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>HSD Global Standards</u> of <u>HARTFORD, CT.</u> have inspected the repair, modification or replacement described in this report on <u>1-23-2014</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date <u>1-23-2014</u> Signed <u>Dean S. Niznik</u> Commissions: <u>1874287258 OHIO 685</u> <small>(inspector) (National Board (include endorsements, and jurisdiction, and no.))</small>	

1E21-049
SHEET 2 of 2

FORM 10-17-1964 MANUFACTURER'S DATA REPORT FOR ALL AIR PUMPS OR VALVES
(Based on the provisions of the ASME Code, Section II, Div. 1)

1. Manufacturer: Boyanon Machine Co., 2800 SW Front Ave., Portland, Oregon 97216

2. Name of User: Electric Illuminating

3. Location of Installation: Electric Power Plant Bldg. 3 & 2

4. Purpose of Valve: Control Nameplate Inlet Size: 2 Inlet Size: 2 (Inch)

5. Material: Cast Iron (a) Cast Iron (b) Carbon Steel (c) Alloy Steel (d) Drawing No. (e) Class (f) S. No. (g) Year Built

6. Material Specification: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

7. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

8. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

9. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

10. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

11. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

12. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

13. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

14. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

15. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

16. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

17. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

18. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

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21. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

22. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

23. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

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32. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

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80. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

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99. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

100. Nameplate Data: NA (a) Drawing No. (b) Class (c) S. No. (d) Year Built

(1) For manually operated valves only.
* Supplemental sheets in form of files, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) drawings are marked 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and marked at top of this form.
(1.77) This form (E06057) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
B224	SA-193 B7	Metrix	Stud, Case
B224	SA-193 B7	Metrix	Nut, Case
B224	SA-193 B7	Metrix	Stud, Gland
B227	SA-193 B7	Metrix	Nut, Gland
A	SA-325 G1 2	Metrix	Capscrew Bracket, Not
A	SA-325 Td 1	Metrix	Bolt, Pump
DB10	SA-193 B7	Metrix	Taper Pin
P.O. 1-45865	SA-192 304	Fambirdan	Plug, Drain
Owner Parts (Seal Circulation Fittings)			
VH001	SA-312 304	Tube Sales	Pipe
VH1	SA-182 304	Fambirdan	Tee
VH2	SA-182 304	Fambirdan	Elbow
VH3	SA-182 304	Fambirdan	Flange
VB02	SA-182 304	Metrix	Orifice
V001, V002, V003	SA-182 304	Fambirdan	Wicket

9. Hydrostatic test - 225/300 p.s.i.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.

Address: 225/300 Corp. Case No. NA Date 2/28/83

Signed: Bingham-Wilmette Company by [Signature]

ASME Certificate of Authorization No. N-1684 to use the N symbol applies 2/28/83 (Date)

CERTIFICATE OF DESIGN

Design information on file: Bingham-Wilmette Company

Stress analysis report (Class T only) on file at: NA

Design specifications certified by (1): Hiram R. Rappert

PE State: Oregon Reg. No. 25924E

Stress analysis certified by (1): Paul Driver - Van Gulik Assoc.

PE State: Oregon Reg. No. 6261

(If Signature not required, Use name only.)

CERTIFICATE OF SHOP INSPECTION

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

of 225/300 have inspected the pump, or valve, described in this Data Report and on 2/22 19 82 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 2/23 19 80

[Signature] (Inspector) Commissions NS-1037 One 506 (Under Bd. State, Prop. and Prof.)

1E22-082

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 04/24/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200461374
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E22, HIGH PRESSURE CORE SPRAY SYSTEM, DIVIS

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1683-1, N-224-1, N-240, N-242, N-272, N-275,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E22	88	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E22H0002, REPLACE 50 KIP SNUBBER S/N 530 WITH 50 KIP SNUBBER S/N 045

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 5/02, 20 15 Signed FENOC-PNPP [Signature] SR QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/3, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/3, 20 15 Signed [Signature] Commissions 14531 AND 01117
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E22-083

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 04/24/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200461373
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1E22, HIGH PRESSURE CORE SPRAY SYSTEM, DIVIS

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1683-1, N-224-1, N-240, N-242, N-272, N-275, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E22	86	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E22H0001, REPLACE 50 KIP SNUBBER S/N 279 WITH 50 KIP SNUBBER S/N 039

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS <small>As required by the Provisions of the ASME Code Section XI</small>	
<small>NOP-CC-5703-04 Rev. 01</small>	
9. Remarks: _____ _____ _____	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.	
Note: Attach all applicable Manufacturer's Data Reports, Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.	
CERTIFICATE OF COMPLIANCE	
I, <u>Abigail Kostel</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No. <u>33</u> to use the "NR" stamp expires <u>28 SEPT, 20 17</u>	
Date <u>5/6</u> , 20 <u>15</u> Signed <u>FENOC-PNPP</u> <u>[Signature]</u> <u>SR. QUALITY TECH.</u> <small>(name of repair organization) (authorized representative) (title)</small>	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, <u>Steven Hoffmann</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>MSB Global Standards</u> of <u>CT</u> have inspected the repair, modification or replacement described in this report on <u>5/3</u> , 20 <u>15</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date <u>5/3</u> , 20 <u>15</u> Signed <u>[Signature]</u> Commissions <u>MS12121 OH107</u> <small>(inspector) (National Board (include endorsements), and jurisdiction, and no.)</small>	

1E51-161

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/02/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200336349
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E51, RX CORE ISOLATION COOLING

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5,1726,N-224,N-241,N-242,N-272,N-275,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)
Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)
Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A Code Case(s)
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E51H0074, REPLACE SNUBBER SIZE 304256RC1 S/N 04616533/001 WITH SNUBBER SIZE 304256RC1 S/N 30700636/012.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17

Date 5/2, 20 15 Signed FENOC-PNPP [Signature] NUC QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMANN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSR Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/3, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/3, 20 15 Signed [Signature] Commissions 14557AH OH/157
(Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-162

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/12/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200471238
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E51, RX CORE ISOLATION COOLING

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, 1728, N-224, N-241, N-242, N-272, N-275,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda Code Case(s)
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)
Edition Addenda Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E51D0001 AND PY-1E51D0002. REPLACE RUPTURE DISCS (LOT NUMBER 10090002-1) WITH RUPTURE DISCS (LOT NUMBER 10090002-1).

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: RUPTURE DISC TREATED AS AN INTERNAL ASME PRESSURE PART, THEREFORE NO VT-2 IS REQUIRED.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.; (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 To use the "NR" stamp expires 28 SEPT, 20 17

Date 5/12, 20 15 Signed FENOC PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN WEFERMAN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/12, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/12, 20 15 Signed [Signature] Commissions 14551AW1 OH1077
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-163

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/21/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200568436
(Repair Orp. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company, PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1E51, RX CORE ISOLATION COOLING

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER, 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION, 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL	RA-53	824	N/A	1982	REPLACEMENT	YES

7. Description of Work: PY-1E51F0056, REPLACE EXISTING VALVE DISC/PISTON ASSEMBLY WITH NEW ASSEMBLY (S/N 10765-1) AND TACK WELDED RETAINING PIN AS DETAILED IN REMARKS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: NON-ASME RETAINING PIN TACK WELDED TO DISC/PISTON ASSEMBLY UTILIZING
WELD FILLER MATERIAL 1/16" ER70S-2 (H/N F5512).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT 20 17
 Date 5/21 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steve Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by USA Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/22 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/22 20 15 Signed [Signature] Commissions 18831ANI 0417
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-163
Sheet 2 of 2

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

Pg. 1 of 2

1. Manufactured and certified by Flowsolve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(Name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp., PO BOX 6100, Johnstown, PA 15907
(Name and address of purchaser)

3. Location of installation Perry Nuclear PF, 10 Center Rd, Perry, OH 44681
(Name and address)

4. Type D82-24401-17 R/F SA105 70 KSI N/A 2015
(Drawing no.) (Material spec. no.) (Design strength) (Code) (Date built)

5. ASME Code, Section III, Division I 1974 WINTER 1975 I N/A
(Edition) (Applicable to applications) (Code) (Date Code no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A

7. Remarks: DISK ASSY FOR 6" GLOBE CHECK VALVE
SO 110041-01

8. Nom. thickness 2.5 in Min. design thickness 0.83 in Diameter ID N/A Length overall N/A

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 10765-1	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1460 psi Temperature 594° F Hydro. test pressure N/A at temp. N/A
(When applicable)

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

(07/10)

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. 10765-1 through N/A

CERTIFICATION OF DESIGN			
Design specifications certified by	FRANCIS C. ROSCH JR. <small>(when applicable)</small>	P.E. State	PA Reg. no. 002055-E
Design report certified by	N/A <small>(when applicable)</small>	P.E. State	N/A Reg. no. N/A
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this (these) PARTS conforms to the rules of construction of the ASME Code, Section III, Division 1.			
NPT Certificate of Authorization No.	N-1563	Expires	11/26/2015
Date	3-14-15	Name	Flowserve Corporation <small>(Not Certificate Holder)</small>
		Signed	 <small>(Not a Design Representative)</small>
CERTIFICATE OF INSPECTION			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by HSB Global Standards			
of Hartford, CT have inspected these items described in the Data Report on 3/14/15 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 its data shown above.			
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.			
Date	3/14/15	Signed	 <small>(Authorized Nuclear Inspector)</small>
		Commission	13170 A.N.I.B.N.S. <small>(National Board Standards and Examinations)</small>

(9/7/11)

1E51-164

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NDP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/10/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200579443
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1E51, RX CORE ISOLATION COOLING

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 1974 Edition
 NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *1644-5, 1728, N-224, N-241, N-242, N-272, N-275,
N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)
 Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)
 Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES

7. Description of Work: INSTALLED NEW FUKISHIMA FLEX MOD VALVE PY-1E51F0585 AND ASSOCIATED PIPING. SEE REMARKS FOR DETAILS.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 70 psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: INSTALLED 1E51F0585 (S/N A140613-23-1) AND ASSOCIATED PIPING 6" SA 106 PIPE (H/N SLNA30298), 6" X 4" SA 234 CONCENTRIC REDUCER (H/N LTJH-7), 6" SA 105 150 PSI FLANGE (H/N ZMF), 6" SA 234 TEE (H/N 14270), AND 6" SA 234 ELBOW (H/N C20151).
ABOVE INSTALLATION PERFORMED UTILIZING WELD FILLER MATERIAL 3/32" ER70S-2 (H/N 065256667 AND C-8046) AND 1/8" ER70S-2 (H/N 065256815).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports, Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
Date 6/10, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hettmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/11, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/11, 20 15 Signed [Signature] Commissions 14551ANI 041197
(inspector) (National Board (include endorsements), end jurisdiction, and no.)

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. A140613-23-11

8. Design conditions _____ of valve pressure class ANSI 150#
(Pressure)
 9. Cold working pressure 275 PSI @ 100°F
(Pressure)
 10. Hydrostatic test 425 Disk differential test pressure 320
 11. Remarks _____

CERTIFICATION OF DESIGN			
Design Specification certified by	<u>Les Robinson</u>	P.E. State	<u>OH</u> Reg. no. <u>E-76390</u>
Design Report certified by	_____	P.E. State	_____ Reg. no. _____

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.			
N Certificate of Authorization No.	<u>N-2882</u>	Expires	<u>11/10/2016</u>
Date	<u>2/2/15</u>	Name	<u>BAL INDUSTRIES, INC.</u> <small>(Certificate Holder)</small>
		Signed	<u>Steven Brown</u> <small>(Authorized Representative)</small>

CERTIFICATE OF INSPECTION			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>ONECIS INSURANCE COMPANY</u>			
of <u>LYNN, MA</u> have inspected the pump, or valve, described in this Data Report on <u>2/2/15</u> and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.			
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.			
Date	<u>2/2/15</u>	Signed	<u>[Signature]</u> <small>(Qualified Nuclear Inspector)</small>
		Commission	<u>NB0392 H. B. SALES</u> <small>(National Board Number and Endorsement)</small>

007111

1E51-165

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/25/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200472722
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: 1E51, RX CORE ISOLATION COOLING

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER, 1975 Addenda Code Case(s) * N-413,N-275,N-242,N-241,N-224,1728,1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 W175 / *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E51, REPLACED REACTOR CORE ISOLATION COOLING HEAD SPRAY PIPING FLANGE FASTENERS AS DETAILED IN THE REMARKS SECTION.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure ***N/A psi Test Temperature ***N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOF-CC-5703-04 Rev. 01

9. Remarks: **VT-2EXAM NOT REQUIRED FOR REPLACEMENT OF FLANGE FASTENERS.

INSTALLED THE FOLLOWING NEW FLANGE FASTENERS:

FLANGE #2 (2) 1 3/8"-8 SA-193 STUDS (H/N LL42) AND (2) 1 3/8"-8 SA-540 HEX NUTS (H/N 14737).

FLANGE #3 (12) 1 1/8"-8 SA-193 STUDS (H/N F827) AND (12) 1 1/8"-8 SA-194 HVY HEX NUTS (H/N J858).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 9/25, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN WELLMAN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSR Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 15 Signed [Signature] Commissions 14551 ADU 04/197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-166

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/26/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200566510
(Repair Org. R.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: 1E51, RX CORE ISOLATION COOLING

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N-413,N-275,N-242,N-241,N-224,1728,1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1E51. REPLACED REACTOR CORE ISOLATION COOLING HEAD SPRAY PIPING FLANGE FASTENERS AS DETAILED IN THE REMARKS SECTION.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure ***N/A psi Test Temperature ***N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: **VT-2 EXAM NOT REQUIRED FOR REPLACEMENT OF FLANGE FASTENERS.

INSTALLED THE FOLLOWING NEW FLANGE FASTENERS:

FLANGE #4 (4) 7/8"-9 SA-193 STUDS (H/N 2C25) AND (8) 7/8"-9 SA-194 HEAVY HEX NUTS (H/N 7C89).

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
Date 6/26, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMAN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 6/26, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 15 Signed [Signature] Commissions 14537ANI OH1197
(Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1G33-179

NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
As Required by the Provisions of the ASME Code Section XI							
NOP-CC-5703-05 Rev. 01							
1. Owner: <u>FirstEnergy Nuclear Generation, LLC</u>		Date <u>06/12/2015</u>					
Name							
<u>76 South Main Street, Akron, OH 44308</u>		Sheet <u>1</u> of <u>3</u>					
Address							
2. Plant: <u>Perry Nuclear Power Plant (PNPP)</u>		Unit <u>1</u>					
Name							
<u>10 Center Road, Perry, Ohio 44081</u>		<u>200004636</u>					
Address		(Repair Organization P.O. No., Job No., etc.)					
3. Work Performed By: <u>PCI Energy Services, LLC</u>		Type Code Symbol Stamp <u>NR</u>					
Name		Authorization No. <u>74</u>					
<u>One Energy Drive, Lake Bluff, Illinois 60044</u>		Expiration Date <u>SEPT 16, 2015</u>					
Address							
4. Identification of System: <u>PY-1G33, REACTOR WATER CLEAN UP</u>							
5. (a) Applicable Construction Code: <u>ASME SEC III, CL1, 1974 Edition, WINTER 75 Addenda, NONE</u> Code Case							
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>2001 ED / 2003 ADD</u>							
6. Identification of Components Repaired and Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1G33	100	N/A	1985	REPLACEMENT	YES
7. Description of Work: <u>REPLACED VALVES 1G33F0101 AND 1G33F0103 AND ASSOCIATED PIPING AS DETAILED IN THE REMARKS SECTION.</u>							
8. Test Conducted: Hydrostatic- <input type="checkbox"/> Pneumatic- <input type="checkbox"/> Nominal Operating Pressure- <input checked="" type="checkbox"/> Other- <input type="checkbox"/>							
Pressure <u>1037</u> psi Test Temperature <u>118</u> °F							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.							
9. Remarks: <u>REPLACED VALVES 1G33F0101 (S/N BJ275) AND 1G33F0103 (S/N 80BPB). VALVES WITH REQUIRED PIPING AND UTILIZING WELD FILLER MATERIAL ASSEMBLY (S/N 1-G33-G-RWCU-19A-RB). AND ADDITIONAL ITEMS AS DETAILED ON PCI NR-1 REPORTS 907582-074 AND 907582-076. INSTALLED BY PCI USING THEIR NR PROGRAM.</u>							

NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-05 Rev. 01

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NR

Certificate of Authorization No. 33 Expiration Date 09-28-2017

Signed [Signature] SR. NUC. TECH. Date JUNE 12, 20 15
 Owner of Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by HSB Global Standards of CT have inspected the components described in this Owner's report during the period 2/11/15 to 6/23/15 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 the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Inspector's Signature Commission: 14551AW1 041177
 National Board, State, Province, and Endorsements
 Date 6/23 20 15

1633-179
SHEET 2 of 3

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

CORRECTED COPY

1. Work performed by: PCI Energy Services, LLC 907582-074
(Date of Work Order 10/27/14)
One Energy Drive, Lake Bluff, Illinois 60044 P.O. Box 10000

2. Owner: First Energy Nuclear Operating Company (FENOC)
(Date)
10 Center Road, Perry, Ohio 44081

3. Name, address and identification of nuclear power plant: Perry Nuclear Power Plant, 10 Center Road, Perry, Ohio 44081

4. System: (G-33) Reactor Water Cleanup (RWCU) & (B-33) Reactor Recirculation

5a. Items that Required Repair, or Replacement Activities

No	Identification							Construction Code			Activity	
	Type of Item	Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)		Code Class
1	Piping Assembly	PCI	1-G33-G-RWCU-19A-RB	N/A	N/A	N/A	2014	ASME / III / 1	1974 / Winter 1975	N/A	I	Replace
2	Piping Assembly	PCI	1-B33-G-RRFC-1-RB	N/A	N/A	N/A	2014	ASME / III / 1	1974 / Winter 1975	N/A	I	Replace
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

5b. Items Installed During Replacement Activities

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

6. ASME Code Section XI applicable for inservice inspection: 2001 2003 None
(Date) (Date) (Date)

7. ASME Code Section XI used for repairs or replacements: 2001 2003 None
(Date) (Date) (Date)

8. Construction Code used for repairs or replacements: 1974 Winter 1975 None
(Date) (Date) (Date)

9. Design responsibilities: First Energy Nuclear Operating Company (FENOC)

10. Tests conducted: hydrostatic pneumatic design pressure pressure N/A psi. Code Case(s): None

11. Description of work Fabrication of piping spool 1-G33-G-RWCU-19A-RB using PCI Quality Assurance Traveler 907582-ASSY1-01 Rev 0, PCI Weld Process Travelers 200004636-11 thru 20 Rev 0 and 200007476-22 thru 27 Rev 0, Weld Procedure Specification 1 MN-GTAW/SMAW Rev 9, and NCR's 907582-01 and 02.
 The piping spool consisting of (1) 3" drain line made up of 10 - 3" single V butt welds (200004636-11 thru 20), and (1) 1 1/2" bypass line made up of 2 1 1/2" single V butt welds (200007476-22 & 27) and 4 - 2:1 unequal leg sockets welds (200007476-23, 24, 25, and 26). All Visual Examination performed in accordance with PCI General Quality Procedure GQP 9.6 Rev 14. Liquid Penetrant Examination performed on all final welds using PCI General Quality Procedure GQP 9.7 Rev 16. Radiography performed on all final welds by PCI Vendor (Acurem) using Procedure RT-9 Rev 2.
 The following customer (FENOC) supplied materials used in the fabrication of piping spool 1-G33-G-RWCU-19A-RB: 2 pcs- 3" x3" x 1-1/2" Reducing Tee, Schedule 160, SA234 WPB (HT# MUJW-1), 1 pc-3" Long Radius Elbow, Schedule 160, SA234 WPB (HT# P325D), 1 pc-3" x 2" Concentric Reducer, Schedule 160, SA234 WPB (HT# LXW2), 1 - 3" 1500# MO Gate Valve, SA 105 (HT# BJ275), 1 - 1 1/2" 1500# Globe Valve, SA 105 (HT# 80BPP), 1 pc-1 1/2" 6000# 90 Degree Elbow, SA 105 (HT# CR7155)(lot# 78532), 5 pcs-3" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 93-05537), 1 pc-2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 151234), 3 pcs-1 1/2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 292064). Weld Wire (ER 70S-2, 1/8" x 36", PCI # 3777, HT# 065915 and ER 70S-2, 3/32" x 36", PCI # 3778, HT# 065915) was Supplied by PCL Welders M-1907, M1744, M939

Fabrication of piping spool 1-B33-G-RRFC-1-RB using PCI Quality Assurance Traveler 907582-ASSY2-01 Rev 0, PCI Weld Process Travelers 200391180-02 thru 04 Rev 0, PCI Weld Process Travelers 200391181-05 and 06 Rev 0 are a part of the assembly but are Non-Code welds and are not to be considered part of this NR-1 Data Report, Weld Procedure Specification 1 MN-GTAW/SMAW Rev 9.
 The piping spool consisting of (1) 2" drain line made up of 5 - 2" 2:1 unequal leg sockets welds (200391180-02 thru 04) and (200391181-05 and 06 which are Non Code and not part of the NR activities). All Visual Examination performed in accordance with PCI General Quality Procedure GQP 9.6 Rev 14. Liquid Penetrant Examination performed on all final welds using PCI General Quality Procedure GQP 9.7 Rev 16.
 The following customer (FENOC) supplied materials were used in the fabrication of piping spool 1-B33-G-RRFC-1-RB: 1 pc-2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 974295), 1 pc-2" Seamless Pipe, Schedule 160, SA 106 Gr B (HT# 151234), 1 - 2" 1500# Globe Valve, SA 105 (SN# E-295P-1-3), 1 - 2" 1500# Globe Valve, SA 105 (SN# E-295P-1-4), Weld Wire (ER 70S-2, 1/8" x 36", PCI # 3777, HT# 065915 and ER 70S-2, 3/32" x 36", PCI # 3778, HT# 065915) was Supplied by PCL Welders M-1907, M1744, M939

12. Remarks: None

CERTIFICATE OF COMPLIANCE	
I, <u>Chad A Ankeny</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair or replacement activities described above conform to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No:	<u>NR-74</u> to use the "NR" stamp expires <u>September 16, 2015</u>
NR Certificate Holder	<u>PCI Energy Services LLC</u>
Date: <u>1/30</u> , 2015 Signed <u>[Signature]</u>	Quality Assurance Engineer
CERTIFICATE OF INSPECTION	
I, <u>Tom Ward</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of: <u>ILLINOIS</u> and employed by: <u>HSB GLOBAL STANDARDS</u> of <u>HARRISBURG CT.</u>	
have inspected the repair or replacement described in the report on <u>01-30-15</u> and state that to the best of my knowledge and belief, this repair or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date: <u>1/30</u> , 2015 Signed <u>[Signature]</u>	Commissions <u>0811557 AB20</u> <u>IL1903</u>

CORRECTED COPY 6-15-15
FORM NR-1 REPORT OF REPAIR OR REPLACEMENT 1633-179
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS SHEET 3 of 3

1. Work performed by: PCI Energy Services, LLC 907582-076 R1**
(Name of NRC certificate holder)
One Energy Drive Lake Bluff, Illinois 60044 United States
(Address)

2. Owner: First Energy Nuclear Operating Company (FENOC) 10 Center Road, Perry, Ohio 44081

3. Name, address and identification of nuclear power plant: Perry Nuclear Power Plant, 10 Center Road, Perry, Ohio 44081

4. System: (G-33) Reactor Water Cleanup (RWCU) & (B-33) Reactor Recirculation

5a. Items that Required Repair, or Replacement Activities

No	Type of Item	Identification						Construction Code				Activity
		Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class	
1	Valve Assembly	N/A	Valve - FO101RN0227	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
2	Valve Assembly	N/A	Valve - FO101ROV210	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
3	Piping Assembly	N/A	2" & 3" Piping between weld 200004636-10 and 200004636-21, including a 1 1/2" bypass line. Per DUN 09-0015-001-002.	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
4	Valve Assembly	N/A	Valve - FO029ROV211	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
5	Valve Assembly	N/A	Valve - FO030ROV211	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
6	Piping Assembly	N/A	2" Piping between weld 200391180-01 and 200391181-07. Per DUN 09-0015-001-001.	N/A	N/A	N/A	N/A	ASME / III NB / 1	1974/ Winter 1975	N/A	1	Replace
7**	U-bolt w/ Nuts	N/A	Spring Can 1G33H0078	N/A	N/A	N/A	N/A	ASME / III NE / 1	1974/ Winter 1975	N/A	1	Replace

5b. Items Installed During Replacement Activities

Type of Item	Installed or Replaced 5a Item No.	Identification						Construction Code			
		Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/Section/Division	Edition/Addenda	Code Case(s)	Code Class
Piping Assembly	1,2,3	PCI	1-G33-G-RWCU-19A-RB	N/A	N/A	N/A	2014	ASME / III NB / 1	1974/ Winter 1975	N/A	1
Piping Assembly	4,5,6	PCI	1-B33-G-RRFC-1-RB	N/A	N/A	N/A	2014	ASME / III NB / 1	1974/ Winter 1975	N/A	1
U-bolt w/ Nuts**	7	Anvil International, Inc	Spring Can 1G33H0078	N/A	N/A	N/A	2014	ASME / III NE / 1	1974/ Winter 1975	N/A	1

6. ASME Code Section XI applicable for inservice inspection: 2001 2003 None
(Edition) (Edition) (Code Case(s))

7. ASME Code Section XI used for repairs or replacements: 2001 2003 None
(Edition) (Edition) (Code Case(s))

8. Construction Code used for repairs or replacements: 1974 Winter 1975 None
(Edition) (Edition) (Code Case(s))

9. Design responsibilities: First Energy Nuclear Operating Company (FENOC)
(Name)

10. Tests conducted: hydrostatic pneumatic design pressure pressure N/A psi. Code Case(s): None

11. Description of work Installation of piping spool 1-G33-G-RWCU-19A-RB, by means of weld numbers 200004636-10 and 200004636-21 using PCI Quality Assurance Travelers 907582-01 Rev.0 and 907582-02 Rev.2, PCI Weld Process Travelers 200004636-10 Rev.0 and 200004636-21 Rev.0; Weld Procedure Specification IMN-GTAW/SAW Rev.9 and NCR 907582-06. All visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14. Liquid Penetrant Examination was performed on all final welds by PCI vendor WesDyne International using Perry Nuclear Power Plant site procedure NQI-0941Rev.20. Radiography was performed on final welds by PCI vendor WesDyne International using WesDyne Procedure WDI-STD-1049 Rev.2. Piping Spool piece was provided by customer (FENOC) and filler material, ER 70S-6 , 3/32" x 36" (PCI#3845, HT#386272), 1/8" x 36" (PCI#3903, HT#386421) was supplied by PCI. Welders M-2126, M-1963, M-2130, M-1964, M-2088 and M-2071.

Installation of piping spool 1-B33-G-RRFC-1-RB, by means of weld numbers 200391180-01 and 200391180-07 using PCI Quality Assurance Travelers 907582-01 Rev.0 and 907582-02 Rev.2, PCI Weld Process Travelers 200391180-01 Rev.0 and 200391180-07 Rev.0 (Weld number 200391180-07 with associated weld process traveler number 200391180-07 Rev.0 is part of the assembly installation, but is a Non-Code weld and is not to be considered part of this NR-1 Data Report); Weld Procedure Specification IMN-GTAW/SAW Rev.9 and NCR 907582-04. Visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14, Liquid Penetrant Examinations were performed on final weld by PCI vendor WesDyne International using Perry Nuclear Power Plant site procedure NQI-0941Rev.20. Piping Spool piece was provided by customer (FENOC) and filler material, ER 70S-6 , 3/32" x 36" (PCI#3845, HT#386272), 1/8" x 36" (PCI#3903, HT#386421) was supplied by PCI. Welders M-2127, M-1964, M-2072, M-2088.

** R/1 was to add a mechanically installed SA-36 U-Bolt (HT# 10069760) with two(2) SA-563 (HT# M0512) nuts that were installed in Spring can Assembly 1G33H0078 using using PCI Quality Assurance Traveler 907582-02 Rev.2

12. Remarks: Final system leakage test will be performed by FENOC.

CERTIFICATE OF COMPLIANCE	
I, <u>Chad A Ankeny</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair or replacement activities described above conform to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No:	<u>NR-74</u> to use the "NR" stamp expires <u>September 16, 2015</u>
NR Certificate Holder	<u>PCI Energy Services LLC</u>
Date: <u>06/15</u> , <u>2015</u> Signed <u>[Signature]</u>	<u>Quality Assurance Engineer</u>
CERTIFICATE OF INSPECTION	
I, <u>Stevan Hoffmann</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of: <u>OHIO</u> and employed by: <u>RSB Global standards</u> of <u>CT</u>	
have inspected the repair or replacement described in the report on <u>4/8</u> <u>2015</u> and state that to the best of my knowledge and belief, this repair or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date: <u>6/21</u> , <u>2015</u> Signed <u>[Signature]</u>	Commissions <u>1551 ANI 041197</u>

1G33-180

NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
As Required by the Provisions of the ASME Code Section XI							
NQP-CC-5703-05 Rev. 01							
1. Owner: <u>FirstEnergy Nuclear Generation, LLC</u>		Date <u>06/12/2015</u>					
Name							
<u>76 South Main Street, Akron, OH 44308</u>		Sheet <u>1</u> of <u>2</u>					
Address							
2. Plant: <u>Perry Nuclear Power Plant (PNPP)</u>		Unit <u>1</u>					
Name							
<u>10 Center Road, Perry, Ohio 44081</u>		<u>200501331</u>					
Address		(Repair Organization P.O. No., Job No., etc.)					
3. Work Performed By: <u>PCI Energy Services, LLC</u>		Type Code Symbol Stamp <u>NR</u>					
Name		Authorization No. <u>74</u>					
<u>One Energy Drive, Lake Bluff, Illinois 60044</u>		Expiration Date <u>SEPT 16, 2015</u>					
Address							
4. Identification of System: <u>PY-1G33, REACTOR WATER CLEAN UP</u>							
5. (a) Applicable Construction Code: <u>ASME SEC. III, CL1, 1974 Edition, WINTER 75</u> Addenda, <u>NONE</u> Code Case							
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>2001 ED / 2003 ADD</u>							
6. Identification of Components Repaired and Replacement Components							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1G33	100	N/A	1985	REPLACEMENT	YES
7. Description of Work: <u>REWORKED HANGERS 1G33H1007, 1G33H1008, AND 1G33H0205 AS DETAILED</u>							
<u>THE REMARKS SECTION.</u>							
8. Test Conducted: Hydrostatic- <input type="checkbox"/> Pneumatic- <input type="checkbox"/> Nominal Operating Pressure- <input checked="" type="checkbox"/> Other- <input type="checkbox"/>							
Pressure <u>1037</u> psi Test Temperature <u>118</u> °F							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.							
9. Remarks: <u>INSTALLED NEW MATERIAL IN HANGER LOCATIONS 1G33H1007 AND 1G33H1008 AND</u>							
Applicable Manufacturer's Data Reports to be attached							
<u>ADDED REINFORCING WELD MATERAIL TO HANGER 1G33H0205 AS DESCRIBED ON PCI NR-1</u>							
<u>REPORT 907582-077.</u>							
<u>INSTALLED BY PCI USING THEIR NR PROGRAM.</u>							

NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

NOP-CC-5703-05 Rev. 01

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NR

Certificate of Authorization No. 33 Expiration Date 09-28-2017

Signed [Signature] SR. NUC. TECH. Date JUNE 12, 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 the State or Province of OHIO and employed by HSR Global Standards of CT have inspected the components described in this Owner's report during the period 6/20/15 to 6/23/15 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 the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 14557 ANI OH1197
Inspector's Signature National Board, State, Province, and Endorsements
Date 6/23 20 15

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

1633-180
 SHEET 2 of 2

1. Work performed by: PCI Energy Services, LLC 907582-077
(Name of NA and/or contractor) (P.O. No., phone, etc.)
One Energy Drive Lake Bluff, Illinois 60044 United States

2. Owner: First Energy Nuclear Operating Company (FENOC) 10 Center Road, Perry, Ohio 44081

3. Name, address and identification of nuclear power plant: Perry Nuclear Power Plant, 10 Center Road, Perry, Ohio 44081

4. System: (G-33) Reactor Water Cleanup (RWCU) & (B-33) Reactor Recirculation

5a. Items that Required Repair, or Replacement Activities

No	Type of Item	Identification						Construction Code				Repair/ Replace
		Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class	
1	Piping Support	N/A	1G33H1007	N/A	N/A	N/A	N/A	ASME / III NF / 1	1974/ Winter 1975	N-71-9	1	Replace
2	Piping Support	N/A	1G33H1008	N/A	N/A	N/A	N/A	ASME / III NF / 1	1974/ Winter 1975	N-71-9	1	Replace
3	Piping Support	N/A	1G33H0205	N/A	N/A	N/A	N/A	ASME / III NF / 1	1974/ Winter 1975	N/A	1	Repair

5b. Items Installed During Replacement Activities

Type of Item	Installed or Replaced 5a Item No.	Identification						Construction Code			
		Mfg. Name	Mfg. Serial No.	Nat'l Bd. No.	Juris. No.	Other	Year Built	Name/ Section/ Division	Edition/ Addenda	Code Case(s)	Code Class
Piping Support	1	PCI	1G33H1007	N/A	N/A	N/A	2014	ASME / III NF / 1	1974/ Winter 1975	N-71-9	1
Piping Support	2	PCI	1G33H1008	N/A	N/A	N/A	2014	ASME / III NF / 1	1974/ Winter 1975	N-71-9	1
Piping Support	3	PCI	1G33H0205	N/A	N/A	N/A	2014	ASME / III NF / 1	1974/ Winter 1975	N/A	1

6. ASME Code Section XI applicable for inservice inspection: 2001 2003 None
(date) (date) (Code Case(s))

7. ASME Code Section XI used for repairs or replacements: 2001 2003 None
(date) (date) (Code Case(s))

8. Construction Code used for repairs or replacements: 1974 Winter 1975 None
(date) (date) (Code Case(s))

9. Design responsibilities: First Energy Nuclear Operating Company (FENOC)

10. Tests conducted: hydrostatic pneumatic design pressure pressure N/A psi. Code Case(s): None

11. Description of work Installation of piping support 1G33H1007, by means of PCI Weld Process Travelers 200501331-01 Rev.0 thru 200501331-05 Rev.0, Weld Procedure Specification 1MN-GTAW/SMAW Rev.9. All visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14, Magnetic Particle Examination was performed in accordance with PCI General Quality Procedure GQP 9.8 Rev.13 on all final welds by PCI. The piping support material was provided by the customer (FENOC) And consists of (1) 4" pipe clamp, SA36, (material# 100078516), Carbon Steel Plate, SA36, (Heat# U8551/1A), Carbon Steel Angle, SA36, (Heat# JG6048), Carbon Steel Tube, ASTM A500 Gr B, Code Case N-71-9 Applies, (Heat# B1M5159). All filler material was supplied by PCI and consists of 3/32" E7018, (PCI# 4042) (Heat# 58891D). Welds were made using the following Welders M-2127, M-1963.

Installation of piping support 1G33H1008, by means of PCI Weld Process Travelers 200501331-06 Rev.0 thru 200501331-10 Rev.0, Weld Procedure Specification 1MN-GTAW/SMAW Rev.9. All visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14, Magnetic Particle Examination was performed in accordance with PCI General Quality Procedure GQP 9.8 Rev.13 on all final welds by PCI. The piping support material was provided by the customer (FENOC) And consists of (1) 4" pipe clamp, SA36, (material# 100078516), Carbon Steel Plate, SA36, (Heat# U8551/1A), Carbon Steel Angle, SA36, (Heat# JG6048), Carbon Steel Tube, ASTM A500 Gr B, Code Case N-71-9 Applies, (Heat# B1M5159). All filler material was supplied by PCI and consists of 3/32" E7018, (PCI# 4042) (Heat# 58891D). Welds were made using the following Welders M-2127, M-1963.

Installation of additional weld material to piping support 1G33H0205 as specified on Drawing Update Notice 09-0015-001-010 Revision 1, section B-B, in accordance with PCI Weld Process Traveler 200501331-11 Rev.0, 1MN-GTAW/SMAW Rev.9. All visual examinations were performed in accordance with PCI General Quality Procedure GQP 9.6 Rev.14, Magnetic Particle Examination was performed in accordance with PCI General Quality Procedure GQP 9.8 Rev.13 on all final welds by PCI. All filler material was supplied by PCI and consists of 3/32" E7018, (PCI# 4042) (Heat# 58891D). Welds were made using the following Welders M-2088, M-1964.

12. Remarks: Final system leakage test will be performed by FENOC.

CERTIFICATE OF COMPLIANCE	
I, <u>Chad A Ankeny</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair or replacement activities described above conform to Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No:	<u>NR-74</u> to use the "NR stamp expires <u>September 16, 2015</u>
NR Certificate Holder	<u>PCI Energy Services LLC</u>
Date: <u>06/15</u> , <u>2015</u> Signed <u>[Signature]</u>	<u>Quality Assurance Engineer</u>
CERTIFICATE OF INSPECTION	
I, <u>Steven Hoffmann</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of: <u>OHIO</u> and employed by: <u>HSR Global Standards</u> of <u>OH</u> have inspected the repair or replacement described in the report on <u>6/23</u> , <u>2015</u> and state that to the best of my knowledge and belief, this repair or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date: <u>6/23</u> , <u>2015</u> Signed <u>[Signature]</u> Commissions <u>14551ANI OH1197</u>	

1N22-076

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/03/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200570427
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1N22, MAIN, REHEAT, EXTRACTION, AND MISC DRAIN

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *N-272,1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda Code Case(s) N/A

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION, 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1N22	112	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1N22H0126, REPLACED PSA 1/2 SNUBBER S/N 18234 WITH PSA 1/2 SNUBBER S/N 17175.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI	
NBP-CG-5703-04 Rev. 01	
9. Remarks: _____ _____ _____	
<p style="text-align: center;"><u>NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.</u></p>	
<p>Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.</p>	
CERTIFICATE OF COMPLIANCE	
I, <u>TOBIAS J KOSTNER</u> , certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No. <u>33</u> to use the "NR" stamp expires <u>28 SEPT, 20 17</u>	
Date <u>5/3</u> , 20 <u>15</u> Signed <u>FENOC-PNPP</u> <u>[Signature]</u> <u>SR. QUALITY TECH</u> <small>(name of repair organization) (authorized representative) (title)</small>	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, <u>Steven Hoffman</u> , holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>HSR Global Standards</u> of <u>CT</u> have inspected the repair, modification or replacement described in this report on <u>5/5</u> , 20 <u>15</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date <u>5/5</u> , 20 <u>15</u> Signed <u>[Signature]</u> Commissions <u>11551 AMI OH/197</u> <small>(inspector) (National Board (include endorsements), and jurisdiction, and no.)</small>	

1N22-077

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/06/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200570468
(Repair Ord. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1N22, MAIN, REHEAT, EXTRACTION, AND MISC DRAIN

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) *N-272,1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1N22	112	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1N22H0127, REPLACE PSA-1 SNUBBER S/N 24408 WITH PSA-1 SNUBBER S/N 20772.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NBP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
 Date 5/6, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN WILHELM, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by WSD Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/6, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/6, 20 15 Signed Steven Wilhelm Commissions 1453141 CH147
(inspector) (National Board (include endorsements) and jurisdiction, and no.)

1N27-061

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/02/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200513606
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1N27, FEED WATER AND FEEDWATER LEAKAGE CONTR

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, N-242, N-272, N-282, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)
 (c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1N27	89	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1N27H0006, REPLACE 70 KIP SNUBBER S/N 299 WITH 70 KIP SNUBBER 034.

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17

Date 5/2, 20 15 Signed FENOC-PNPP [Signature] NUC QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, STEVEN HOFFMAN, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSD Global standards of CT have inspected the repair, modification or replacement described in this report on 5/4, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/4, 20 15 Signed [Signature] Commissions 14531AUN OH1197
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

1N27-062

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/02/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200513607
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: PY-1N27, FEED WATER AND FEEDWATER LEAKAGE CONTR

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * 1644-5, N-242, N-272, N-282, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001.EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1N27	89	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1N27H0007. REPLACE 70 KIP SNUBBER S/N 301 WITH 70 KIP SNUBBER 043 AND INSTALL NEW LOAD PIN HEAT NUMBER CAS, S/N 1749

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NDP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT, 20 17
 Date 5/2, 20 15 Signed FENOC-PNPP [Signature] NUC QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/4, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/4, 20 15 Signed [Signature] Commissions 1457 ANI 041197
(inspector) (National Board include endorsements, and jurisdiction, and no.)

1N27-063

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 05/09/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200565864
(Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1N27, FEED WATER AND FEEDWATER LEAKAGE CONTROL

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER, 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W/75 Addenda * Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 Edition, 2003 Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION, 2003 Addenda N/A Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL INTERNATIONAL	PZ42	663	N/A	1981	REPLACEMENT	YES

7. Description of Work: PY-1N27F0559B, RE-INSTALLATION OF EXISTING TEST PORT PLUG UTILIZING WELD FILLER MATERIAL 1/8" ER70S-2 (H/N 065256815).

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1039 psi Test Temperature *** degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: *****RECORDED TEMPERATURES (IN DEGREES F): HEAD TEMP - 126, BOTTOM FLANGE - 121, SHELL - 120, AND BOTTOM HEAD DRAIN - 149.**

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp" expires 28 SEPT 20 17
 Date 9/13, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffmann, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HDR Global Standards of CT have inspected the repair, modification or replacement described in this report on 5/14, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/14, 20 15 Signed [Signature] [Signature] Commissions 14531A01 OH157
(inspector) (National Board (include endorsements, and jurisdiction, and no.)

1N27-064

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 06/22/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200568439
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: PY-1N27, FEED WATER AND FEEDWATER LEAKAGE CONTR

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 Code Case(s)
Edition Addenda

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 Code Case(s)
Edition Addenda

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair Replacement	ASME Code Stamped (Yes or No)
VALVE	ROCKWELL	PZ-83	662	N/A	1981	REPLACEMENT	YES

7. Description of Work: PY-1N27F0559A RE-INSTALL EXISTING TEST PORT PLUG UTILIZING WELD
FILLER MATERIAL 3/32" E7018 (H/N 67702C)

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure 1039 psi Test Temperature 118 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT 20 17

Date 6/23, 20 15 Signed FENOC-PNPP [Signature] SR. QUALITY TECH
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Steven Hoffman, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB Global standards of CT have inspected the repair, modification or replacement described in this report on 6/23, 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/23, 20 15 Signed [Signature] Commissions 14551 AMI OH197
(inspector) (National Board (include endorsements, and jurisdiction, and no.)

1P11-012
Corrected Copy

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 11/22/2013
76 South Main Street, Akron OH 44308 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200497779
(Repair Org. P. O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2014

4. Identification of System: PY-1P11, CONDENSATE TRANSFER AND STORAGE

5. (a) Applicable Construction Code: ASME SECTION III DIV 1 CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER, 1975 Addenda Code Case(s) * N-272,1644-5,N-275,N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001,EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
PIPING SYSTEM	PULLMAN POWER	1P11	107	N/A	1985	REPLACEMENT	YES

7. Description of Work: PY-1P11F0545, REPLACE 12" CHECK VALVE S/N N19288 WITH 12" CHECK VALVE S/N N96695-00-0001

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure NOP psi Test Temperature NOT degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT 20 14

Date 11-22-2013 Signed FENOC-PNPP [Signature]
(name of repair organization) (authorized representative) (Title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas E. LAPS, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSR CT of HARTFORD, CT have inspected the repair, modification or replacement described in this report on Nov 22, 2013 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 11/22, 2013 Signed [Signature] Commissions NR 4335 NIA OHIO
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

IP11-012
CORRECTED COPY
SHEET 2 of 2

Q.C.-398, Rev. B
Form NPV-1
re ad Location of Installation 3-8-02 D/E 1/20/02

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

1. Manufactured and certified by Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093
(name and address of N Certificate Holder)

2. Manufactured for FIRST ENERGY
(name and address of Purchaser) DEB 8-11-02

3. Location of installation *FLOWER VALLEY Perry Nuclear Plant
(name and address) KWS3/E/02

4. Model No., Series No., or Type CV1B 1215-SCE Drawing DS-C-98695 Rev. - CRN N/A

5. ASME Code, Section III, Division 1: 1974 WINTER 1975 2 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve VALVE Nominal inlet size 12 Outlet size 12
(in.) (in.)

7. Material:
(a) valve Body SA105 Bonnet Disk Bolting
(b) pump Casting Cover Boltling

(a) Cert. Holder's Serial No.	(b) Narl Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
98695-00-0001		BODY	N98560-31-0001	
		DISC	N98526-31-0001	
		LINK	N98561-31-0001	
		LINK BUSHING	N98562-32-0003	
		TORSION SPRING	N98563-0001	
		HINGE PIN BUSHING	N98564-31-0001	
		HINGE PIN BUSHING	N98564-31-0002	
		BOLT/SHANK	N98566-31-0001	
		SLOTTED NUT	N98567-0001	
		WASHER	N98565-31-0001	
		WASHER	N98565-31-0002	
		HINGE PIN	N98568-31-0001	

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

This form (B90637) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

No. 2497

Mar. 8. 2002 3:32PM

Form NPV-1

Q.C.-398, Rev. B
Side 2

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

Certificate Holder's Serial No. N98695-00-0001

8. Design conditions 150 psi 267 ° F of valve pressure class ANSI CL150 (1)
 (pressure) (temperature)
9. Cold working pressure 2E5 psi at 100°F
10. Hydrostatic test .450 psi. Disk differential test pressure N/A psi

11. Remarks:

CERTIFICATE OF DESIGN

Design Specification certified by MILTON G. CAPIOTIS P.E. State PA Reg. No. 028303-E
 Design Report certified by _____ P.E. State _____ Reg. No. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.
 N Certificate of Authorization No. N-1876 Expires 30 SEPTEMBER 2001
 Date 26 Feb 2002 Name ANDERSON GREENWOOD CROSBY Signed [Signature]
 (N Certificate Holder) (authorized representative)
 *Date 8 MAR 02 *Signed D.E. [Signature]

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASSACHUSETTS and employed by FACTORY MUTUAL INS. CO. of JOHNSTON, RI have inspected the pump, or valve, described in this Data Report on February 26 2002, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 2/26/02 Signed [Signature] Commissions MA-1413
 (Authorized Inspector) (Nat'l. Bd. (incl. Endorsements) and state or prov. and no.)
 *Date 3-08-02 ANI [Signature] MA-1413

0.0 2673 0N

NO. 0 2002 0 0 1000

NMPL-045

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 02/10/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200567391
(Repair Org. F.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: N/A

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001, EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	WEIR VALVE AND CONTROLS	2-52969-B	N/A	N/A	2006	REPAIR	YES

7. Description of Work: SPARE COMPONENT REBUILD. REPLACED (2) VALVE PLATES (HN 87506, S/N 75241/75239) WITH (2) NEW VALVE PLATES (HN 02245, S/N 801/806).

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

9. Remarks: PRESSURE TEST WILL BE PERFORMED FOLLOWING INSTALLATION

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 20 SEPT, 20 17

Date 2-11, 20 15 Signed FENOC-PNPP P. G. SUPERVISOR
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, THOMAS G LAPS, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB GLOBAL SERVICES of HARTFORD, CT have inspected the repair, modification or replacement described in this report on FEB. 11, 2015 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 2/11, 20 15 Signed Thomas G Laps Commissions NB 9330 "N" "I" "A" OHIO COMM
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

NMPL-046

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As required by the Provisions of the ASME Code Section XI
 NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 02/10/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200567391
 (Repair Org. P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
 Expiration Date 9-28-2017

4. Identification of System: N/A

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001.EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	WEIR VALVE AND CONTROLS	2-51906-A	N/A	N/A	2004	REPAIR	YES

7. Description of Work: SPARE COMPONENT REBUILD. REPLACED (2) VALVE PLATES (HN 0464, S/N V261/V262) WITH (2) NEW VALVE PLATES (HN 02245, S/N 804/805).

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
 Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

<p>NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI NOP-CC-5703-04 Rev. 01</p>
<p>9. Remarks: <u>PRESSURE TEST WILL BE PERFORMED FOLLOWING INSTALLATION</u></p> <p>_____</p> <p>_____</p> <p>_____</p>
<p><u>NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.</u></p>
<p>Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in Items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.</p>
<p>CERTIFICATE OF COMPLIANCE</p>
<p>I, <u>DAVID B KNOPSNIDER</u>, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.</p> <p>National Board Certificate of Authorization No. <u>33</u> to use the "NR" stamp expires <u>28 SEPT, 20 17</u></p> <p>Date <u>2-11, 20 15</u> Signed <u>FENOC-PNPP</u> <u>[Signature]</u> <u>PAUL SUGO AVILES</u> <small>(name of repair organization) (authorized representative) (title)</small></p>
<p>CERTIFICATE OF INSPECTION/INSERVICE INSPECTION</p>
<p>I, <u>THOMAS G LAPS</u>, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> and employed by <u>HSB GLOBAL SERVICES</u> of <u>HARTFORD, CT</u> have inspected the repair, modification or replacement described in this report on <u>FEB 11, 20 15</u> and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.</p> <p>By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.</p> <p>Date <u>2/11, 20 15</u> Signed <u>[Signature]</u> <u>THOMAS G LAPS</u> Commissions <u>NB 9330 "N" "I" "A" OHIO COMM</u> <small>(inspector) (National Board (include endorsements), and jurisdiction, and no.)</small></p>

NMPL-047

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As required by the Provisions of the ASME Code Section XI

NOP-CC-5703-04 Rev. 01

1. Owner: FirstEnergy Nuclear Generation, LLC Date 02/10/2015
76 South Main Street, Akron OH 44308 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE
10 Center Road, Perry, Ohio 44081 200567391
(Repair Org, P.O. No., etc.)

3. Work Performed By: FirstEnergy Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9-28-2017

4. Identification of System: N/A

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2, 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 1975 Addenda Code Case(s) * N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 *
Edition Addenda Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 2001 2003 N/A
Edition Addenda Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
2001 EDITION 2003 Addenda N/A
Code Case(s)

(e) Design Responsibilities FENOC

6. Identification of Components Repaired, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
VALVE	ATWOOD & MORRILL CO.	3-51001-A	N/A	N/A	2002	REPAIR	YES

7. Description of Work: SPARE COMPONENT REBUILD. REPLACED (2) VALVE PLATES (HN 02235, S/N R878-R879) WITH (2) NEW VALVE PLATES (HN 02245, S/N 800/803).

8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

NOP-CC-6703-04 Rev. 01

9. Remarks: PRESSURE TEST WILL BE PERFORMED FOLLOWING INSTALLATION

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 28 SEPT, 20 17
Date 2-11, 20 15 Signed FENOC-PNPP [Signature]
(name of repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, THOMAS G LAPS, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB GLOBAL SERVICES of HARTFORD, CT have inspected the repair, modification or replacement described in this report on FEB 11 20 15 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 2/11, 20 15 Signed Thomas G Laps Commissions NB B330 "N" "I" "A" OHIO COMM
(inspector) (National Board (include endorsements), and jurisdiction, and no.)