

David B. Hamilton Vice President Perry Nuclear Power Plant PO Box 97 10 Center Road Perry, Ohio 44081

440-280-5382

June 29, 2017 L-17-072

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 Sixteenth Inservice Inspection Summary Report

In accordance with 10 CFR 50.55a, "Codes and standards," and the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, "Inservice Inspection," 2001 Edition through 2003 Addenda, Article IWA-6000, enclosed please find the inservice inspection summary reports for examinations performed prior to and during the sixteenth refueling outage at the Perry Nuclear Power Plant (PNPP). This submittal provides the PNPP inservice inspection summary for the timeframe of April 25, 2015 to April 3, 2017.

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,

David B. Hamilton

Enclosures:

- A. Form NIS-1 Owners Report for Inservice Inspections, including attached Inservice Inspection Summary Report for the Perry Nuclear Power Plant
- B. Form OAR-1 *Owner's Activity Report*
- cc: NRC Region III Administrator NRC Resident Inspector NRC Project Manager Authorized Nuclear Inservice Inspector Ohio Department of Commerce, Boiler Inspection Section

Enclosure A L-17-072

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Form NIS-1 Owners Report for Inservice Inspections, including attached Inservice Inspection Summary Report for the Perry Nuclear Power Plant (Activities performed 4/25/2015 through 5/18/2016)

> Consists of Form NIS-1 (3 pages), and its attached Summary Report P1059-016 (25 pages)

Page 1 of 2

FORM NIS-1 OWNERS REPORT FOR INSERVICE INSPECTIONS

As required by the provisions of the ASME Code Rules

1. Owner	1. Owner FirstEnergy Nuclear Generation, LLC, 76 South Main Street, Akron, OH 44308 (Name and Address of Owner)								
2. Plant	(Name and A Perry Nuclear Power Plant, 10		NU 44081						
2. I lant		ddress of Plant)	<u>7<u>1</u> 44081</u>						
2 Diant Unit	3. Plant Unit 4. Owner Certificate of Authorization (if required) N/A								
5. Franc Ontenter 1 4. Owner Certificate of Authorization (il required) N/A									
5. Commercial Service Date 11/18/87 6. National Board Number for Unit N/A									
7. Components Insp	7. Components Inspected (only the systems with Class 1 and 2 components are listed in following table)								
		Manufacturer	-						
Component or	Manufacturer	or Installer	PNPP System	National					
Appurtenance	or Installer	Serial No.	Designation	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	1 B2 1	109					
Reactor Recirculation System GE/A&ES		1 B 33	1 B 33	64076					
Reactor Recirculation System	Pullman Power Products	1B33	1B33	119					
Control Rod Drive		1000	1055	117					
Hydraulic Control System	Pullman Power Products	1011	1011	02					
Standby Liquid Control	Fullitali Fower Floducts	1C11	1C11	92					
System	Pullman Power Products	1C41	1C41	108					
Containment									
Atmosphere Monitoring Residual Heat Removal	Johnson Controls	1D23-0064-F	1D23	008					
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 8% in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This Form (E00029) may be obtained from the Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Report No.: P1059-016

Page 2 of 2

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.	Commerc	al 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	Manufacturer	Manufacturer or Installer	PNPP System	National
Appurtenance	or Installer	Serial No.	Designation	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	1 M 14	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	1 M 51	1 M 51	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	1 P 11	1 P 11	102
Mixed Bed Demineralizer Water Sys.	Pullman Power Products	1 P 22	1 P22	73
Nuclear Closed Cooling System	Pullman Power Products	1P43	1P43	101
Containment Chilled Water System	Pullman Power Products	1P50	1 P5 0	103
Service Air System	Fisher Controls	6393471	1P51	6170
Instrument Air System	Pullman Power Products	1 P 52	1 P52	74
Post Accident Sampling System	Johnson Controls	1P87	1P87	034
Containment System	Newport News	NNI-OS-02	1 T 23	N/A

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Report No.: P1059-016

FORM NIS-1 (Back)

8.	Examination Dates 4/25/2015	to <u>5/18/2016</u>	
9.	Inspection Period Identification:	Second Period	ł
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 and Revision 18 dated 11/18/16	
13.	Abstract of Examinations and tests. work required for the Inspection Pla	include a list of examinations and tests and a statement concerning status of a	f

See attached summary report P1059-0016*

14. Abstract of Results of Examinations and Tests.

See attached summary report P1059-0016*

15. Abstract of Corrective Measures.

See attached summary report P1059-0016*

* Report is 25 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.

Cerufi	icate of Authorization N	o. (if applicable)	<u>N/A</u>	Expiration Date	N/A/
Date	05/23/2017	Signed	FENOC Owner	By <u>Stanley VGor</u>	sti Stanlin V Krohi

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>Hartford Steam Boiler Insp. And Ins. Co.</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>4/25/2015</u> to <u>5/18/2016</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

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.

Th	iomes It Leper	Commissions	NB 9330	N	ĩ	A	OHIO
	Inspector's Signature		National Board,	State, P	rovinc	e, and	Endorsements
Date	5/23/17						

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:	1R16
DOCUMENT COMPLETED:	May 19, 2017

ABSTRACT

Perry Nuclear Power Plant (PNPP) Unit 1 was shut down for twenty-nine (29) days to refuel the reactor vessel [Refueling Outage 16(1R16)] and perform plant maintenance commencing March 5, 2017. 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 10.

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

It should be noted that during Cycle 16, PNPP implemented Code Case N-532-5, which allows the use of Form OAR-1, "Owner's Activity Report" in lieu of Form NIS-1, "Owner's Report for Inservice Inspections". As such, this report will only discuss activities which were performed between the beginning of Cycle 16 (4/25/2015) until the implementation of Code Case N-532-5 (5/18/2016).

Additionally, previously submitted reports for Refueling Outages 1R14 and 1R15, Section 8.0 "Relief Requests" stated that Relief Request IR-009 had been utilized. This was not correct as this request had not been submitted for this interval.

1R16 was the second 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 performed in Cycle 16 and 1R16, will fulfill the required minimum percentage of exams for the second period.

One ASME Form NIS-2 was included in this submittal due to missing the ASME Code Data Report, Form N-2 from the manufacturer during the previous cycle. RRP No. 1B13-060 has been included in this submittal.

One ASME Form NIS-2 from the previous cycle has been included in this package due the form being revised after submittal to the National Board. RRP No. 1B13-058 contained typos and has been corrected.

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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 1R15 (April 25, 2015) through the implementation of Code Case N-532-5 (May 18, 2016).

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 1R16 from March 5, 2017 to April 3, 2017. The plant returned to commercial operation on April 3, 2017, at 11:42. This is noted as the time when the generator was synchronized to the grid. This report does not cover any of the activities for the outage. These will be covered in Form OAR-1.

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-461-1, N-513-3, N-526, N-528-1, N-532-5, N-537, N-552, N-561-2, N-562-2 N-566-2, N-578, N-586-1, N-613-1, N-624, N-648-1, N-652-1, N-658, N-661-2, N-663, N-664, N-666, N-683, N-685, N-695, N-700, N-705, N-716-1, 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 16 operations. 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 16 operations until the implementation of Code Case N-532-5:

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Name	UT	PT	MT	VT
Bares, Jeffrey	II*	II	II	II+
Barrett, Jennifer				II+
Blalock, Roy				II+
DiVito, David	II*			II+
Fuller, Richard Jr.	III**	III	III	III
Gorski, Stan				II+
Guerinot, Gregory				II+
Heath, Jacob				II+
Holz, Charles				II+
Kostner, Tobias	II*	II	II	II
Mangle, James				II+
Mick, Andrew	II*			II+
Miranda, Jeffrey				II+
Munson, Dewey	III	III	III	III
Olderman, David				II+
Phelps, Antoinette				II+
Pikus, Raymond				II+
Preisinger, Jon Paul				II+
Pristov, Judith	II*			II+
Quick, Nathan				II+
Rasmussen, Eric				II+
Rocker, Erica				II+
Roth, Scott	II*	II	II	II+
Sayovitz, Steve				II+
Truxall, Justin				II+
Zaharewicz, Kurt				II+

ISI NDE PERSONNEL

- Limited to VT-2 only
 * - Limited to ultrasonic thickness measuring only
 ** - PDI qualified personnel

5.2 Equipment and Materials

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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.

For the reporting period, only visual examinations were performed. As such, no equipment or materials were required.

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6.0 CALIBRATION STANDARDS

There were no ultrasonic calibration standards used for ISI related work activities during Cycle 16.

7.0 PROCEDURES

The examination procedures used during Cycle 16 operations were as follows:

Perry NDE Procedures:

PROĈEDURE #*	Řev.	y	~	 TÎŢĻĘ	-
NQI-1042	16 & 17	Visual Examin	ation		

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-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-030 R-1	Reactor Pressure Vessel Circumferential Welds	No Exams	B-A	B1.11
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	С-Н	C7.10

9.0 SCHEDULE CHANGES

No schedule changes were made during the period covered by this report.

10.0 EXAMINATION SUMMARY RESULTS

1R16 was the fourth refueling outage of Perry's third 10-Year Inservice Inspection Interval and the second of two outages in the second inspection period. Not including pressure testing VT-2 exams that are completed every period, Cycle 15 and 1R15 account for approximately half of the ASME Section XI Code required minimum exams to be completed by the end of the second period, or 1R16.

Cycle 16 and 1R16 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.

From the end of 1R15 through the implementation of Code Case N-532-5, only VT-2 examinations as part of system leakage tests or Repair/Replacement activities occurred. As such, no listing of examinations is included with this report.

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 through the implementation of Code Case N-532-5:

RRP NO.	FLOC/MPL NO.	DESCRIPTION/COMMENTS	CLASS	PAGE			
	Reactor	and Internals (1B13) System Cycle 16:					
1B13-058	1B13-D0001	Replaced 2 LPRM dry tubes and 4 SRM dry tubes	1	9			
1B13-060	1B13-D0008	Replaced One Control Rod Drive Mechanism (CRDM) and replaced 1" cap screws (8 total)	1	19			
Rea	Reactor Core Isolation Cooling (1E51) System Cycle 15 & 1R15 Reports:						
1E51-167	1E51-H2074	Replaced PSA 1/4 snubber with new	2	24			

NR-1/NIS-2 FORMS

Report No.: P1059-016

APPENDIX A

"CYCLE 16 & 1R16 NIS-2/NR-1 FORMS"

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1

\$ 1

1B13-058

N	NIS-		ER'S REPOR					ENTS		
							Date <u>12/29/201</u> Sheet <u>1</u> of			
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE 10 Center Road, Perry, Ohio 44081 200261110 (Repair Org. P.O. No., etc.)							lo., 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 Expiration Date 9-28-2017									
	4. Identification of System: <u>PY-1B13, REACTOR AND INTERNALS</u> 5. (a) Applicable Construction Code: <u>ASME SECTION III CLASS 1</u> , <u>1971</u> Edition <u>NAME/SECTION/DIVISION/CLASS</u> <u>WINTER 1972</u> Addenda Code Case(s) <u>1332-6,1620,1557-1,1141-1</u>									
6.	 (b) Construction Code used for repairs, modifications, or replacements: <u>1974</u> <u>W/75</u> <u>Addenda</u> <u>Code Case(s)</u> (c) ASME Code Section XI applicable for Inservice Inspection: <u>2001</u> <u>2003</u> <u>N/A</u> <u>Code Case(s)</u> (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: <u>2001, EDITION</u> <u>2003</u> Addenda <u>N/A</u> <u>Code Case(s)</u> (e) Design Responsibilities <u>FENOC</u> 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	CBI NUCLEAR COMPANY	T49	15	N/A	1975	REPLACEMENT	YES		
					, ,					
	REMARKS	of Work: <u>PY-1B13</u> SECTION.								
8.		ucted: Hydrostatic <u>037</u> psi Te	F Pneumat st Temperature <u>11</u>		Nominal Op degrees F	-	ressure- 🛛 Oth Case(s) <u>N/A</u>	er- 🔲		

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Remarks: <u>REPLACED</u>	LPRM DRY TUBES 0	18-41 WITH S/	N 141021LZ AND 08-49	WITH S/N 04S85851.
EPLACED SRM DRY TU	JBES 16-21 WITH S/N	04\$84952, 16	-45 WITH S/N 15B0018	K. 40-21 WITH S/N
B0019L, AND 40-45 WI	<u>TH S/N 15B0019J.</u>			
			•	
: .			•. • •	- •
D NAMEPLATE/STAMP	ING PERFORMED DL	JE TO THE IN	TERFACE CONTROLS	OF PART 3 SECTION
B.6 BEING IN EFFECT A	AND JURISDICTIONA		CONCURRENCE HAV	ING BEEN RECEIVED.
te: Attach all applicable drawings may be us report is included o the front of this form	sed, provided (1) size i on each sheet, and (3)	is 8 1/2 in. x 1	l in., (2) information in it	s lists, sketches, or ems 1 through 6 of this er of sheets is recorded
	CERTIF	FICATE OF CO	MPLIANCE	-
I, <u>TOBIAS J KOSTNER</u> correct and the repair, mo Code and to the National	odification or replacemen	nt of the items di "NR" rules.	e and belief the statement escribed above conforms to	o Section XI of the ASME
National Board Certificate Date $\frac{12}{29}$, 20 $\frac{15}{15}$		C-PNPP	to use the "NR stamp expli (authorized representativ	SR. QUALITY TECH
,	CERTIFICATÉ OF II	NSPECTION/IN	SERVICE INSPECTION	
1. THOMAS G.	LAPS ,ho	olding a valid co	mmission issued by The N	ational Board of Boller and
Pressure Vessel Inspecto				OHIO
and an electron the That Little				and the second se
and employed by <u>The Ha</u> inspected the repair, mod	• •			
inspected the repair, mod	e and belief, this repair, n	nodification or re	eplacement has been com	pleted in accordance with
inspected the repair, mod				pleted in accordance with
inspected the repair, mod the best of my knowledge Section XI of the ASME C By signing this certificate,	Code and the National Bo , neither the undersigned	bard Inspection (d nor my employ	Code "NR" rules. er makes any warranty, ex	pressed or implied,
inspected the repair, mod the best of my knowledge Section XI of the ASME C By signing this certificate, concerning the work desc	Code and the National Bo , neither the undersigned cribed in this report. Furth	bard Inspection (I nor my employ hermore, neithe	Code "NR" rules. er makes any warranty, ex r the undersigned nor my e	pressed or implied, mployer shall be liable in
inspected the repair, mod the best of my knowledge Section XI of the ASME C By signing this certificate, concerning the work desc any manner for any perso	Code and the National Bo , neither the undersigned cribed in this report. Furth onal injury, property dama	bard Inspection (I nor my employ hermore, neithe	Code "NR" rules. er makes any warranty, ex r the undersigned nor my e ny kind arising from or con	pressed or implied,
inspected the repair, mod the best of my knowledge Section XI of the ASME C By signing this certificate, concerning the work desc any manner for any perso	Code and the National Bo , neither the undersigned cribed in this report. Furth	bard Inspection (I nor my employ hermore, neithe	Code "NR" rules. er makes any warranty, ex- r the undersigned nor my e ny kind arising from or con Commissions <u>NB 932</u> (National E	pressed or implied, mployer shall be liable in

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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

. Manufactured and certified	d by <u>GE Reuter-Stokes</u>	5, Inc., 8499 Darrow Road	Twinsburg, Oh	io 44087
. Manufactured for Fi	rst Energy Corp P.O. Box (•	
. Location of installation	•	Plant 10 Center Road P	erry, OH 44081	
. Type: <u>RS-E5-1210-20</u>	•••••••	N/A	N/A	2014
(drawing na.)	(mai'i spet. no.)	(leasile strength)	(CRM)	(year built)
. ASME Code, Section III, D	ivision 1: <u>1974</u>	Winter 1974	1	N/A
	(edition)	(addenda dale)	(class)	(Code Case na.)
. Fabricated in accordance w	vith Const. Spec. (Div. 2 only)	N/A Revision	N/A	Date N/A
		(80.)		
. Remarks: <u>Certified I</u>	Design Specification C	DS-C-272A8152-1 Rev. 0		
Certifi	ed Design Report C	DR-C-5253-23 Rev		
On Fil	e at GE Reuter-Stokes, Inc.			

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

	Part or Appurtene Serial Number	r Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
\cap	(1) 1410211	Z N/A	(26)	
1	(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)	1	(42)	
	(18)		(43)	
	(19)		(44)	
	(20)	-	(45)	
	(21)		(46)	
	(22)		(47)	
	(23)		(48)	
	(24)		(49)	
\frown	(25)		(50)	•

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

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

(07/10)

31/A

PRODUCTION ORDER NUMBER: 19739871

FORM N-2 (Back - Pg. 2 of _2)

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	CERTIFICATION	OF DESIGN		į
Design specifications certified by	when applicated)	P.E. State <u>CA</u>	Reg. no.	<u>MF348</u>
Design report* certified by	Robert Scott Betschman (when applicable)	P.E. State <u>OH</u>	Reg. no.	E-56133
	CERTIFICATE OF C	OMPLIANCE		
We certify that the statements mad	e in this report are correct and tha	t this (these) <u>Assem</u> t	lies	
conforms to the rules of construction	on of the ASME Code, Section III, I	Division 1.		
NPT Certificate of Authorization N	N-2703	Expires	September	16, 2015
	•		-11/	
Date November 12, 2014	Name <u>GE Reuter-Stokes</u>	s, IncSigned	autorized represe	matthew
	for a granter react		/	
	CEDTIEICATE OF I	INSPECTION		
	CERTIFICATE OF I	INSPECTION		·
I, the undersigned, holding a va	lid commission issued by the N	ational Board of Boller		
employed by H.S.B. Glo	lid commission issued by the N bal Standards	ational Board of Boller	F HARTFOR	D, CT
employed by <u>H.S.B. Glo</u> have inspected these items describ	lid commission issued by the N bal Standards ed in this Data Report onN	ational Board of Boller	F <u>HARTFOR</u> nd state that t	D, CT the best of m
employed by <u>H.S.B. Glo</u> have inspected these items describ knowledge and belief, the Certifi	lid commission issued by the N bal Standards ed in this Data Report on cate Holder has fabricated these	ational Board of Boiler of OV 12,2014 a parts or appurtenances i	f <u>HARTFOR</u> nd state that to n accordance wit	D, CT the best of m
employed by <u>H.S.B. Glo</u> have inspected these items describ knowledge and belief, the Certifi Section III, Division 1. Each part II By signing this certificate, neithe equipment described in this Data	lid commission issued by the N bal Standards ed in this Data Report onN cate Holder has fabricated these lsted has been authorized for stam in the inspector nor his employer Report. Furthermore, neither the	ational Board of Boller <u>ov 12, 2014</u> a parts or appurtenances i ping on the date shown a makes any warranty, e inspector nor his emplo	f <u>HARTFOR</u> nd state that the n accordance will bove. xpressed or imply yer shall be liable	tD, CT o the best of m th the ASME Cod ied, concerning th
employed by <u>H.S.B. Glo</u> have inspected these items describ knowledge and belief, the Certifi Section III, Division I. Each part II By signing this certificate, neithe	lid commission issued by the N bal Standards ed in this Data Report onN cate Holder has fabricated these lsted has been authorized for stam in the inspector nor his employer Report. Furthermore, neither the	ational Board of Boller <u>ov 12, 2014</u> a parts or appurtenances i ping on the date shown a makes any warranty, e inspector nor his emplo	f <u>HARTFOR</u> nd state that to n accordance wi bove. xpressed or impl yer shall be liable	tD, CT o the best of m th the ASME Cod ied, concerning th
employed by <u>H.S.B. Glo</u> have inspected these items describ knowledge and belief, the Certifi Section III, Division 1. Each part II By signing this certificate, neithe equipment described in this Data	alid commission issued by the N abal Standards red in this Data Report onN cate Holder has fabricated these lated has been authorized for stam or the Inspector nor his employer Report. Furthermore, neither the amage or loss of any kind arising f	ational Board of Boiler <u>ov</u> <u>ov</u> <u>12</u> , <u>2014</u> a parts or appurtenances is ping on the date shown a makes any warranty, et a inspector nor his emplo from or connected with the	f <u>HARTFOR</u> nd state that to n accordance wi bove. xpressed or impl yer shall be liable	tD, CT o the best of m th the ASME Cod ied, concerning th e in any manner fo

(07/11)

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		Inc., 8499 Darrow Road, our and address of NPT Cartificate Holdes		o 44087 (
2	Manufactured for <u>Perry</u>	First Energy Corp 10 ((name and addre	Center Road PNPP TEC, 1 as of Purchaser)	Perry, OH 44081	-
3.	Location of installation	Perry First Energy Co (name and addue	orp 10 Center Road PNP	P TEC, Perry, OI	1 44081
4.	Type: <u>RS-E5-1500-217</u>	N/A	N/A	N/A	2015
	(drawing no.)	(mat'l spec. no.)	(lensile strength)	(CRN)	(year bailt)
5.	ASME Code, Section III, Division	1:	Winter 1974	1	N/A
		(edition)	(addenda date)	(Clast)	(Code Case sto.)
6.	Fabricated in accordance with Co	nst. Spec. (Div. 2 only)	N/A Revision	N/A	Date N/A
			(no.)		
7.	Remarks: <u>Certified Design</u>	Specification CD	S-C-5600-7-1 Rev. 0		
	Certified De	sign Report CD	R-C-5600-79 Rev		•
	On File at G	E Reuter-Stokes, Inc.			······································

8. Nom. thickness (in.) <u>N/A</u> Min. design thickness (in.) <u>N/A</u> Dia. ID (ft & in.) <u>N/A</u> Length overall (ft & in.) <u>N/A</u> 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) 15B0019J	N/A	(26)	
(2) 15B0019K	N/A	(27)	
(3) 15B0019L	N/A	(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
Ø		(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

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

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	•	Certificate	Holder's Serial Nos. <u>N</u>	V/A_through_N/A
	CERTIFICATIO	N OF DESIGN		
Design specifications certified by	Bill A. Balazs (when epplicable)	P.E. State	<u>CA</u> Reg. no.	<u>MF348</u>
Design report* certified by	David P. Ryzner (when applicable)	P.E. State	OH Reg. no.	PE-74026
	CERTIFICATE O	FCOMPLIANCE		-
We certify that the statements made conforms to the rules of construction			Assemblies	
NPT Certificate of Authorization No	<u>N-2703</u>	Expir	es <u>Septemi</u>	ver 16, 2015
Date <u>February 28, 2015</u>	Name <u>GE Reuter-Stol</u> (NPT Certificate Holder)	kes, Inc. Signed _	Danard Jacks	edo III-
	CERTIFICATE O	F INSPECTION		-
I, the undersigned, holding a valid employed by <u>H.S.B. Globa</u>		National Board of 1	Boiler and Pressure of HARTF(•
have inspected these items described knowledge and belief, the Certifica Section III, Division 1. Each part list	l in this Data Report on te Holder has fabricated the	e parts or appurtent	and state that ances in accordance	to the best of my
By signing this certificate, neither the equipment described in this Data Re any personal injury or property dama	eport. Furthermore, neither t	he inspector nor his	employer shall be lia	plied, concerning the ble in any manner for
Date 2/2.8/15	Authorized Imperiary	Commissions		OH 667
				-

(07/11)

WORK ORDER NUMBER: 17916818

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
			addram of NPT Certificate Holds		

(name and address of Purchaser)

Z Manufactured for Pirst Anerev	2	Manufactured for	First Energy
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4

3. Location of installation Perry Nuclear Power Plant 10 Center Road Perry, OH 44081

		(name and add	ress)				······		
4.	Type: <u>RS-E5-1500-217</u>	<u> </u>		N/#	·	N/A		2007	
	(drawing no.)	(mat'l spec. no.)		(ien	sile strangth)	(CEN)		(year buili)	,
5.	ASME Code, Section III, Division	1:1974	•	Winter 1	1974	1		N/A	
		(edition)	_	(øddenda	data)	(clase)		(Cade Case no.)	
б.	Fabricated in accordance with Co	nst. Spec. (Div. 2 only) _		<u>N/A</u>	Revision	<u>N/A</u>	Date	N/A	
				(no.)					

7. Remarks: <u>Certified Design Specification</u> 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.) <u>N/A</u> Min. design thickness (in.) <u>N/A</u> Dia. ID (ft & in.) <u>N/A</u> Length overall (ft & in.) <u>N/A</u>
 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) ·	`` <u>`</u>	(31)	
(\mathcal{O})	•	(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 <u>1250 PSIG</u> psi. Temp. <u>Vessel 575°F. Seal 300°F.</u> Hydro. test pressure <u>1875 PSIG</u> at temp. 70°F.

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 81/2 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 (7/91)

FORM N-2 (Back - Pg. 2 of _2)

Certificate Holder's Serial Nos. <u>N/A</u> through <u>N/A</u>

				CERTIFIC		<i>FDESIGN</i>						-
esign specif	ications certific	ed by		Balazs applicable)	· ·	P.E. State	. <u> </u>	<u> </u>	Reg. no.		MF3	<u>48</u>
esign repor	* certified by			<u>I: Sabet</u>		P.E. State	<u>N</u> Y		Reg. no.	`	0716	<u>38</u>
5 5 F			c	ÉRTIFICA	TE OF CO	MPLIANC	E '					
	nt the statement the rules of cont		-	• •	-	•	Asse	<u>mblies</u>				•
IPT Certifica	te of Authoriza	ation No	,,	<u>N-2703</u>		1	Expires		Septemb	<u>er 16,</u>	2009	
ále	4/5/0	27_N	iame <u>GE</u>	Reuter-Str NPT Centricate	okes, Inc. Holler)	_ Signed		 (1	K. H.	4		
•	•••	,		١	· · · · · · · · · · · · · · · · · · ·	SPECTION		.*			,	٠
ate or Provi ive inspecte rowledge av action III, Di	gned, holding nce of <u>OI</u> d these items d nd belief, the (vision 1. Each	<u>HO</u> an lescribed ir Certificate part listed	ommission ad employ n this Data Holder ha has been a	issued by ed by Report on as fabricate authorized	the Natio H.S.B. I these p for stampi	<u>CT</u> - <u>CS</u> - <u>Z</u> arts or appu- ing on the da	of 007 Intenance Inte shown	and st s in acco n above.	HARTF(ate that ordance	<u>DRD,</u> to ti with ti	CT he best he ASM	t of 17E Ca
ate or Provi ave inspecte nowledge au ection III, Di y signing the nuipment do	nce of <u>OF</u> d these items d nd belief, the (<u>HO</u> an lescribed ir Certificate part listed neither the Data Repo	ommission ad employe n this Data Holder hi has been o e inspector ort. Furth	ed by Report on as fabricate authorized r nor his e ermore, ne	the Natio H.S.B. Control these provides the providence for stamping apployer r apployer r dither the international states of the providence of the providenc	<u>-25-2</u> arts or appuing on the da makes any v nspector nor on or connec	of oo7 orienance the shown varranty, this emp ted with	and st s in acco n above, express ployer sh this insp	HARTFI ate that ordance t add or im all be lia bection.	DRD. to the with the plied, ble in	CT he best he ASM concer any my	t of Æ Co ming ming
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1813-058 Sheet 5of 5

WORK ORDER NUMBER: 13710

	As Req	RTIFICATE HOL NUCLEAR PAR uired by the Prov Not to Exceed On	TS AND APPL visions of the A	RTENANC	ES*		Pg. 1 of _2
	ed and certified by ed forFirst Energy	(n	, Inc., 8499 Day	row Road, ' Certificate Helder)	Twinsburg, Ohi	o <u>4408</u> 7	·····
. Location of	installation <u>Perry Nucl</u>	•	10 Center Roa	d Perry, OH	44081	-	
. Туре: <u>R</u>	S-E5-1210-201 (drawing no.)		N/A	ife strength)	N/A (CRN)		2005 (yaar buili)
. ASME Code	e, Section III, Division 1:	1974 (edilion)	Winter 1 (addenda d		1(class)		N/A (Code Case will)
. Fabricated in	n accordance with Const. S	Spec. (Div. 2 only) _	<u>N/A</u> (no.)	Revision	N/A	Date	N/A
. Remarks:	Certified Design Spe Certified Design		DS-C-272A8152 DR-C-5253-08	-1			

On File at GE Reuter-Stokes, Inc.

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

Part S	or Appurtenance Serial Number	Nationa] Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
•)	04585851	N/A	(26)	
(2)	04585852	N/A	(27)	
(3)			(28)	
			(29)	
(4) (5)			(30)	
(6)			(31)	
(7)			(32)	
(8)			(33)	
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(13)			(38)	
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(15)			(40)	
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(18)			(43)	
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(20)			(45)	
(21)			(46)	
(22)			(47)	
(23)			(48)	
(24)			(49)	
(25)		•	(50)	

Design pressure <u>1250 PSIG</u> psi. Temp. <u>Vessel 575°F. Seal 300°F.</u> Hydro. test pressure <u>1875 PSIG</u> at temp. 70°F.

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

This form (800040) may be obtained from the Order Dept. , ASME, 22 Law Drive, Box 2500, 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

CERTIFICATION Design specifications certified by <u>Bill A. Balazs</u> (when applicable) Design report ⁴ certified by <u>Ahmed I. Sabet</u> (when applicable) CERTIFICATE OF C	P.E. State	CA NY	Reg. no. Reg. no.	MF348	
(when applicable) Design report ^a certified by <u>Ahmed I. Sabet</u> (when applicable) CERTIFICATE OF C	P.E. State		· .		
(when spplicable) CERTIFICATE OF C		<u>NY</u> .	Reg. no.	.	
			•	071638	
We contify that the statements we do to the	OMPLIANCE			-	
We certify that the statements made in this report are correct and tha conforms to the rules of construction of the ASME Code, Section III, I	t this (these) Division 1.	Assemblies	······································		
NPT Certificate of Authorization No N-2703	Expi	res	September :	16, 2006	
Date 2/17/05_ Name <u>GE Reuter-Stokes, Inc</u> (NPT.Certificate Holder)	Signed			itativo)	
State or Province ofOHIO and employed byHS.B have inspected these items described in this Data Report on2 knowledge and belief, the Certificate Holder has fabricated these p Section III, Division 1. Each part listed has been authorized for stamp by signing this certificate, neither the inspector nor his employer equipment described in this Data Report. Furthermore, neither the	17 65 barts or appurten bing on the date sl makes any warra	and s ances in acc hown above anty, expres	cordance with 	the best of the ASME	Cod ng t
Date 2/17/05 Signed Watton IT Black	om or connected	with this ins	pection.	•	
(Authorized Inspector)		[Nat'i Bd. (ii	ici. endorsements) at	nd state or prov. an	vd 70.]
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	As	IER'S REPOI required by the Pro					
NOP-CC-5703	-04 Rev. 01			1			
1. Owner:	FirstEnerg	y Nuclear Generation	n, LLC			Date <u>01/18/20</u>	016
	76 South I	Main Street, Akron	<u>OH 44308</u>	<u> </u>		Sheet <u>1</u> 0	of <u>3</u>
2. Plant:	Perry Nu	clear Power Plant (PNPP)			Unit ONE	
	10 Center	Road, Perry, Ohio	44081			200326644	
				<u></u>		(Repair Org. P.O.	No., etc.)
3. Work Per	formed By: <u>FirstEn</u>	ergy Nuclear Operati	ing Compa	ny PNPP		Type Code Sym	ibol Stamp <u>NR</u>
	<u> 10 C</u>	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	o. <u>33</u>
						Expiration Date	<u>9-28-2017</u>
4. Identificat	tion of System: <u>PY</u> -	1B13, REACTOR	AND INTE	RNALS			
5. (a) Applic	able Construction C	ode: <u>ASME SECT</u>				<u>. 1974</u> Edit	ion
WINT	ER1975			1728,1644	-4.N-272		
(c) ASME (d) Applic <u>2001,I</u>	truction Code used f E Code Section XI a cable Edition of Sect EDITION 2003 n Responsibilities <u>F</u>	pplicable for Inserv ion XI Utilized for R Addenda <u>N/A</u> Code	ice Inspec	tion:	Ed 2001 Ed	lition Addenda 2003 ition Addenda	Code Case(s) <u>N/A</u> Code Case(s)
. Identificati	on of Components	Penaired or Penla					
		repaired, or replac	cement Co	omponents			
Name of Component	Name of	Manufacturer Serial No.	Nat. Board No.	Other . ID.	Year Built	Repair, Replacement	ASME Code Stamped (Yes or No)
	Name of	Manufacturer	Nat. Board	Other			Code Stamped (Yes or
Component PIPING	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Built	Replacement	Code Stamped (Yes or No)
Component PIPING	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Built	Replacement	Code Stamped (Yes or No)
Component PIPING	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Built	Replacement	Code Stamped (Yes or No)
Component PIPING	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Built	Replacement	Code Stamped (Yes or No)
Component PIPING SYSTEM	Name of Manufacturer GE	Manufacturer Serial No. 1B13	Nat. Board No. 64077	Other ID. N/A	Built 1984	Replacement REPLACEMENT	Code Stamped (Yes or No) YES
Component PIPING SYSTEM Description	Name of Manufacturer GE	Manufacturer Serial No. 1B13 008. REPLACED C	Nat. Board No. 64077	Other ID. N/A ROD DRIV	Built 1984 E CORE	Replacement REPLACEMENT	Code Stamped (Yes or No) YES
Component PIPING SYSTEM Description <u>A-4643 WI</u>	Name of Manufacturer GE	Manufacturer Serial No. 1B13 008. REPLACED C	Nat. Board No. 64077 :ONTROL	Other ID. N/A ROD DRIV 8) NEW 1" 3	Built 1984 E CORE SA540 C/	Replacement REPLACEMENT	Code Stamped (Yes or No) YES

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k	As required by the Provisions of the ASME Code Section XI
9.	Remarks:
N	NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
1.8	3.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
۱c -	te: 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 the front of this form.
	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 No33 to use the "NR stamp expires 28 SEPT, 20 17
	Date 01/18 20 16 Signed FENOC-PNPP State State State Structure SR NUC ENG SPEC. (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
L	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 ofOHIO
	and employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the repair, modification or replacement described in this report on AH . aO 20 IG and state that to
	inspected the repair, modification or replacement described in this report on <u>JAM. 9</u> , 20 16 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 01/20, 20 16 Signed Thomas H Jeps Commissions NB 9330 H I A Correct (inspector) (Inspector) (National Board (include endorsements),

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Page 2 of 2

1313-060 sh 2 of 3

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Page 21 of 25

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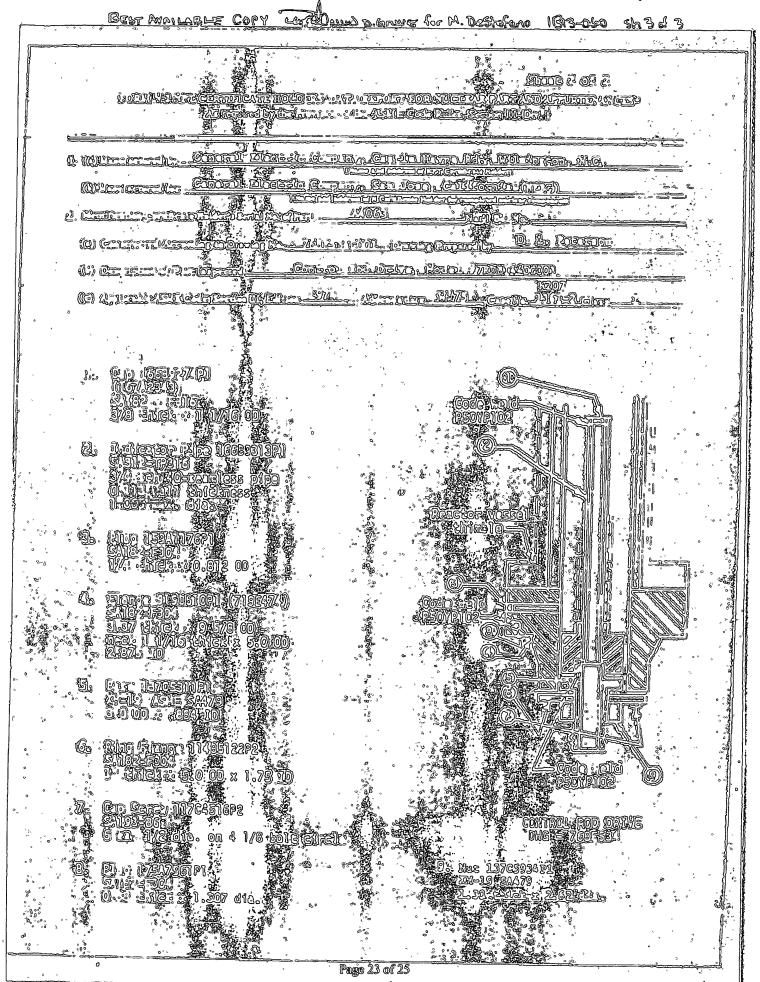
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Report	No.:	P10	59-0)16
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NOP-CC-5703-0								
1. Owner: _						Date <u>10/02/2015</u>		
-	76 South Main Street, Akron OH 44308					Sheet <u>1</u> o	f <u>1</u>	
. Plant: _		dear Power Plant (Unit <u>ONE</u>		
-	10 Center Road, Perry, Ohio 44081			<u>200389590</u> (Repeir Org. P.O. No., etc.)				
Work Perf	ormed By: <u>FirstEn</u>	ergy Nuclear Operati	ing Compa	ny PNPP		Type Code Sym	bol Stamp <u>N</u>	
	10 Center Road, Perry, Ohio 44081			Authorization No33				
						Expiration Date	<u>9-28-2017</u>	
. Identificati	on of System: <u>PY-</u>	1E51, RX CORE IS	SOLATION		3			
. (a) Applica	ble Construction C	ode: <u>ASME SECT</u>		ASS 2		<u>, 1974</u> Edit	ion	
WINTE	ER 1975				28 NL224	<u>N-241,N-242,N-27</u>	10 NI 075	
				1044-0,11	LU. 1-24-		Z, IN-Z/ 5,	
<u>N-413</u>								
	uction Code used f				 ts: 1974		*	
(b) Constr	uction Code used f	or repairs, modifica	ations, or r	replacemen			* Code Case(s	
(b) Constr	uction Code used f	or repairs, modifica	ations, or r	replacemen	Ed 2001	Ition Addenda	* Code Case(* N/A	
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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, <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 No33 to use the "NR starpe expires 28 SEPT_, 20 17
Date 10/2-, 20 15 Signed FENOC-PNPP (authorized representative) SR. QUALITY TECH (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 OHIO and employed by HSB GLOBAL STDS. of HARTFORD CONN.
inspected the repair, modification or replacement described in this report on <u>OCT. 2</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 10/2, 20 15 Signed Themes 21 Jack Commissions NB 9330 N I A Comm. (inspector) (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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Page 2 of 2

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Enclosure B L-17-072

Form OAR-1 *Owner's Activity Report* (Activities performed 5/19/2016 through 4/03/2017)

(2 Pages Follow)

Report Number			P1059-0016		
Plant	Perry Nucl	ear Power Plant	10 Center Road, Perry,	OH 44081	
Unit No. 1	Commercial service		November 18, 1987	Refueling outage no.	1R16
(ıſapplicab					
Current inspection interv			(1st, 2nd, 3rd, 4th, other)		
Current inspection period	d		Second (1st, 2nd, 3rd)		
Edition and Addenda of	Section XI applicable to the	e inspection plans		Edition through 2003 Addenda	
Date and revision of insp	ection plans Inservice E	Examination Plan	(ISEP) Revision 17 dat	ted 2/5/15 and Revision 18 dat	ed 11/18/
Edition and Addenda of	Section XI applicable to rep	pair/replacement a	ectivities, if different th	an the inspection plans <u>N/</u>	A
Code Cases used for insp	ection and evaluation:			EP: N-461-1, N-513-3, N-526 fied by Case N-532 and later revisions)	, N-528-
N-532-5, N-537, N-552,	N-561-2. N-562-2. N-566-2	2. N-578. N-586-)	. N-613-1. N-624. N-6	48-1, N-652-1, N-658, N-661	-2. N-663
	-683, N-685, N-695, N-700				
	CER	FIFICATE OF C	ONFORMANCE		
Conform to the requirement			1	(refueling outsee	number)
Signed <u>Stanky L</u>	1 Gorsk: Sturling	V. Anglas	Date Tech Services Eng	(refueling outage	number}
•		V. Kanhi a. Tille myrager, 1	Date Tech Services Eng		
•	I Gors V. Itus Hi Owner ar Owner's Designed		7 <u>Date</u> <u>Cech Services Eng</u> EVICE INSPECTION	05/23/2017	number)
Signed <u>Stanky</u> L	CERTIFIC ding a valid commission is:	CATE OF INSEP	resh Services Eng NVICE INSPECTION nal Board of Boiler and	S/23/2017 I I Pressure Vessel Inspectors ar	nd
Signed <u>Stanky</u> L I, the undersigned, hol employed by <u>Hartford</u> <u>Company</u>	CERTIFIC ding a valid commission is: Steam Boiler Inspection and	CATE OF INSEE sued by the Nation Insurance of	REAL Services Eng. RVICE INSPECTION nal Board of Boiler and Hartford, CT hav	25/23/2017 I d Pressure Vessel Inspectors arving inspected the items descri	nd bed in the
Signed <u>Stanky</u> L I, the undersigned, hol employed by <u>Hartford</u> <u>Company</u> Owner's Activity Report,	CERTIFIC ding a valid commission is: Steam Boiler Inspection and and state that, to the best o	CATE OF INSER sued by the Nation Insurance of f my knowledge a	REAL Services Eng. RVICE INSPECTION nal Board of Boiler and Hartford, CT hav	S/23/2017 I I Pressure Vessel Inspectors ar	nd bed in the
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	TABLE 1				
Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service					
Examination Category and Item Number	Item Description	Evaluation Description			
None	N/A	N/A			

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TABLE 2 Abstract of Repair/Replacement Activities Required for Continued Service							
Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number			
1	Pipe Support 1E12-H0739	Replace U-Bolt and nuts	3/23/17	200647792			
3	Snubber 1G33-H0147	Replace snubber due to failed function test	3/23/17	200709856			
3	Flexible Hose 1B21-D0030C	Replace flexible hose to SRV due to air leakage	3/28/17	200709841			
2	Snubber 1E12-H0280	Replace snubber due to failed function test	3/17/17	200646511			
1	Bolting hardware 1B13-N8-B	Replaced hardware due to damage during removal	4/1/17	200664434			
I	Bolting hardware 1B13-0168-B	Replaced hardware due to failure to perform VT-1 during prior outage	3/15/17	200670394			
1	Bolting hardware 1E51-0001-B	Replaced hardware due to damage during removal	4/1/17	200664434			
3	Flexible Hose 1E22-D5013A	Replaced damaged flexible hose due to air leakage	9/11/16	200691719			
2	Valve 1G33-F0039	Replaced stem and gate	4/3/17	200636659			
2	Valve 1P51-F0530	Replace check valve with one with stainless internals	3/29/17	200638222			
3	2" Threaded Flange	Replaced flange with new due to air leakage	6/27/16	200640995			
3	Valve 1G33-F0032	Replaced valve with new	3/29/17	200559380			
2	Support 1E12-H0121	Replaced support bolts higher strength bolts	3/26/17	200708094			
3	Flexible Hose 1E22-D5013A	Replaced flanged connection to flexible hose due to air leakage	5/12/16	200682438			

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