

Mark B. Bezilla Vice President 440-280-5382 Fax: 440-280-8029

August 5, 2009 L-09-197

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 Twelfth Inservice Inspection Summary Report

In accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, "Inservice Inspection," 1989 Edition, Article IWA-6000, the Perry Nuclear Power Plant Twelfth Inservice Inspection Summary Report (Form NIS-1) is enclosed. This report documents the inservice examination activities conducted from return to commercial operations following the eleventh refueling outage until completion of the twelfth refueling outage.

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 330-761-6071.

Sincerely,

Mark B. Bezilla

Enclosure:

FirstEnergy Nuclear Operating Company Perry Nuclear Power Plant Twelfth Inservice Inspection Summary Report

cc: NRC Region III Administrator
NRC Resident Inspector
NRC Project Manager
Authorized Nuclear Inservice Inspector
Ohio Department of Commerce, Boiler Inspection Section

404 (N/CR FirstEnergy Nuclear Operating Company Perry Nuclear Power Plant Twelfth Inservice Inspection Summary Report

FORM NIS-1 OWNERS REPORT FOR INSERVICE INSPECTIONS As required by the provisions of the ASME Code Rules

l. Owner	FirstEnergy Nuclear Operating Company, 76 South Main Street, Akron, OH 44 (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)
5. Commercial S	Service Date 11/18/87 6. National Board Number for Unit N/

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	PNPP MPL No.	National Board No.
Rx Vessel	GE/CBIN	T-49 ,	1B13	15
Rx 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
CRD 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
MSIV 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.

FORM NIS-1 (Back)

8.	Examination Dates 5/14/07	to	5/13/09		•		
9.	Inspection Period Identification:	Third F	eriod	-		· .	
10.	Inspection Interval Identification:	Second					
11.	Applicable Edition of Section XI		1989	_ Addenda	None	<u>.</u>	
12.	Date/Revision of Inspection Plan:	Rev 13	, PNPP Inser	vice Examinat	ion Program Plan, d	ated 1/23/09	
13.	Abstract of Examinations and tests work required for the Inspection P		a list of exam	inations and te	sts and a statement	concerning status	of
14.	See attached summary report P005 Abstract of Results of Examination		ts.	, , , , , ,	•	· · · · · · · · · · · · · · · · · · ·	
15.	See attached summary report P005 Abstract of Corrective Measures.	59-0012*					
	See attached summary report P003	59-0012*					
	* Report is 198 two-sided pages i	n length.	•				
	We certify that a) the statements mequired by the ASME Code, Section tion XI.						Plan
Cer	tificate of Authorization No. (if app	plicable)	N/A	Ex	piration Date	N/A	
Dat	e <u>7(9/59</u> Sign	ed	FENOC Owner	By <u>Æ</u>	Picheral M. Fili	July.	<u>L</u>
	CERT	TIFICATE	OF INSER	VICE INSPE	CTION		
	ne undersigned, holding a valid com the State or Province of <u>Ohi</u>	nmission is	sued by the l	National Board and employed		am Boiler (of
insp con Insp		corrective SME Code the Inspe- ective mea	, and sta measures de , Section XI. ector nor his sures describ	te that to the be scribed in this employer maled in the Own	est of my knowledge Owner's Report in ces any warranty, e ner's Report. Fur	and belief the Own accordance with a xpressed or impli- thermore, neither	ner the ed, the
	Thomas Islam Inspector's Signature	Comr			"I", & "A", Ohio Co State, Province, and		
Date	حماً ما			Tanonai Doald,	omo, riovinoc, and	, Dadorsomonts	į

1. Owner	FirstEnergy Nuclear Operating Company, 76 South Main Street, Akron, OH 44308					
	(Name and Address of Owner)					
2. Plant	Perry Nuclear Power Plant, 10 Center Road, Perry, OH 4408	1				
	(Name and Address of Plant)					
3. Plant Unit	4. Owner Certificate of Authorization (if required)	N/A				
5. Commercia	al Service Date 11/18/87 6. National Board Number for Unit	N/A				
7 Componen	te Inchected (only the systems with Class I and 2 components are listed in follows	wing table)				

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	PNPP MPL No.	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	IN11	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

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT #1

LOCATED AT:

10 Center Road

Perry, Ohio 44081

OWNER:

FirstEnergy Nuclear Operating Company

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:

November 18, 1998 - May 17, 2009

INSPECTION PERIOD:

Third (Nov 18, 2005 - May 17, 2009)

REFUELING OUTAGE:

RF012

DOCUMENT COMPLETED:

July 9, 2009

ABSTRACT

Perry Nuclear Power Plant (PNPP) Unit #1 was shutdown for approximately eleven and a half weeks to refuel the reactor vessel [Refueling Outage 12(RFO12)] and perform plant maintenance commencing February 23, 2009. During this time period, and during the preceding operating cycle, inservice examinations were performed to comply with plant Technical Specifications and the 1989 Edition of ASME Section XI with no Addenda.

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, and also Class 3 and Augmented examinations, which were performed in accordance with the schedules within PNPP's Inservice Examination Program Plan (ISEP), Revision 13.

Automated ultrasonic examinations were performed on the upper course; reactor pressure vessel dissimilar metal nozzle to safe-end welds (previously Category B-F, now Risk-Informed R-A). These included five Feedwater (N4) nozzles, two Core Spray (N5) nozzles and three Low Pressure Core Injection (N6) nozzles. These examinations met the new ASME Section XI, Appendix VIII, Supplement 10 requirements. Existing flaws in N6A and N6C, first evaluated as a part of the BWRVIP guidance UT data review under Condition Report (CR) 08-47166, were again recorded and evaluated under CR 09-56393.

Routine Section XI volumetric, surface and visual examinations were performed on Class 1, 2 and 3 piping systems and pressure retaining components. Class 1 piping weld examinations included application of Risk Informed ISI (reference Relief Request IR-049).

In-vessel examinations consisted of the required Code visual examinations along with augmented visual examinations of numerous vessel interior components. Augmented ultrasonic examinations were also performed on the 20 Jet Pump Hold-Down Beams. Baseline visual examinations were performed on the Steam Dryer. The baseline exams identified minor indications on two Lifting Rod to Lifting Eye Barrel tack welds, one Upper Brace to Bank A End Panel weld, and within the Support Ring; reference CR's 09-54923, 09-55345 and 09-54661. The augmented visual and ultrasonic examinations were primarily conducted in accordance with the Boiling Water Reactor Vessel and Internals Project (BWRVIP) inspection guidelines. Minor jet pump wedge wear was found on jet pump 6 and 13 and evaluated as acceptable for operation through RF013 (refer to CR 09-54819). Minor Wedge Rod wear was also found on a number of Jet Pumps; refer to CR 09-55400. Follow-up examinations of the vessel interior crud deposits found during RFO9 were performed and the crud deposits were found to be essentially unchanged (refer to CR's 03-01995 & 05-01928). Follow-up examinations were also performed on the SHSAM bolts for the anti-rotation pin wear found in RFO9. SHSAM #2 & 8 were modified this outage under Engineering Change Package 06-0021, Order 200081398. A followup Condition Report, 09-55364 was written document the condition going forward into Cycle 13 (also refer to CR's 03-02831 & 05-01794). A surveillance sample holder (SSH-2) was also found to have a bent bail handle; refer to CR 09-55513.

RFO12 was the second refueling outage of the third Inspection Period within Perry's second 10-Year inservice Inspection Interval. With the completion of the Cycle 12 and RFO12 examinations, 100% of the examinations scheduled for the third period are done. The examinations resulted in a complete and acceptable program in that all indications were evaluated for acceptance in accordance with ASME Section XI, all required corrective actions and/or evaluations were completed, and the required completion percentages were met.

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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 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 RFO11 through the completion of RFO12.

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 shutdown for RFO12 from February 23, 2009 to May 13, 2009. The plant returned to commercial operation on May 13, 2009, at 13:02. 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, 1989 Edition, no Addenda, with Code Cases N-307-3, N-416-3, N-457, N-460, N-461-1, N-491-2, N-498-4, N-509, N-513-2, N-522, N-524, N-526, N-532-4, N-546, N-552, N-566-2, N-568, N-578 as applied in PNPP's Risk-Informed Class 1 Piping program, N-586-1, N-592, N-598, N-599, N-601, N-613-1, N-623, N-624, N-647, N-648-1, N-652-1, N-663, N-664, N-695 and N-700.

4.0 INSPECTION

Inspection activities were conducted by Authorized Nuclear Inservice Inspection personnel from the Hartford Steam Boiler Company.

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 12 operations and RFO12. 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 12 operations and RFO12:

ISI NDE PERSONNEL

	Year Vernania and American		T	The same and the s
Name Name		PT	MT	VI
Andrie, Bryan	NA	NA	NA	II+
Blood, Eric	NA	NA	NA	II++
Blum, William	III**	III	III	NA
Bohn, Joseph	NA	NA	NA	II++
Boyd, Rodney	NA	NA	NA	II++
Bryan, Timothy	II*	NA	NA	NA
Bryd, James	NA	NA	NA	II++
Buck, George	III**	II	II	III
Burton, Chad	II***	NA	NA	NA
Catron, Earnest	III**	NA	NA	NA
Cave, Peter	NA	IIL	IIL	II
Clare, John	NA .	NA	NA	II+
Crawford, Timothy	NA	NA	NA	II++
Devito, Michael	NA	IIL	IIL	II
Drews, Michael	NA	NA	NA	II++
DuBose, George	III^	III	III	NA
Duncan, Michael	NA	NA	NA	II++
Duron, Robert	II^	NA	NA	NA
Erbacher, Lester	NA	NA	NA	II
Erickson, Scott	III**	III	III	III
Fish, Cody		NA.	NA	NA
Fish, Karen	· II^	NA ·	NA	NA
Fish, Ken	II***	NA	NA .	NA
Fish, Kevin	II***	·NA	NA	NA ·
Fitzgerald, Michael	NA	NA	NA	II++
Franklin, Sean	NA	NA.	NA	II+
Green, Jerry	NA	NA	NA	II+++
Hancock, David	II**	II	II	II
Herman, Dustin	NA.	NA	NA	II++
Hess, S. Rodney	NA:	NA	NA	II+++
Holloway, Mark	NA	NA	NA	II++
Huhe, Troy	II**	TI	II	NA
Hurley, Melvin	NA.	IIL	NA	II
Joffe, Christopher	NA	NA NA	NA	<u> </u>
Joffe, Nicholas	NA NA	NA	NA	II++
Johnson, Gary	NA NA	IIL	IIL	II
Jopko, Steve	NA NA	IIL	NA NA	
Kemp, Michael	NA NA	NA NA	NA	III++
Lesnjak, Damijan	II	II	IIL	II
Lynch, Norbon	NA NA	NA NA	NA	II+
Matthys, Russell	NA NA	NA NA	IIL	II
McCain, Samuel	NA NA	NA NA	NA NA	II++
Messenger, John	NA NA	NA NA	NA.	III
Munson, Dewey	III**	III	III	III
Musgrove, Floyd	NA NA	NA NA	NA NA	II+++
Neau, David	NA NA	NA NA	NA NA	III++
Meau, David	1 IVM	INA .	IVA	TTT

ISI NDE PERSONNEL (Continued)

Name Titlerin	UTHER	PUSSIE	ME	VIII.
Ott, William	NA	IIL	NA	II
Owens, Johnny	NA	·NA	NA	II+
Pattterson, John	NA	NA	NA	II+
Phelps, Antoninette	NA	NA	NA	II+
Phillips, David	NA	NA	NA	II++
Phillips, Donald	NA	NA	NA	II+++
Powell, Richard	NA	IIL	IIL	II
Rachal, Andre	II**	NA	NA	NA
Richardt, Joseph	NA	NA	NA	II+
Roth, Scott	NA	NA	NA	II+
Rude, Jan	NA	NA	NA	II++
Seng, Tony	II***	NA	NA	NA
Shearer, Levi	NA	NA	NA	II
Shipes, Kenneth	NA	IIL	NA	II
Siever, Michael	NA	ΝA	NA	II++
Snyder, Steve	II**	II	II	II
Starnes, Jason	NA	NA	NA	II++
Stefanelli, Frank	NA	NА	NA .	II++
Strong, Michael	NA	NA	NA	II++
Subido, Nicholas	II***	NA	NA	NA
Tepsick, Michael	NA	NA	NA	III
Todd, Eugene	NA	NA	NA	II+
Trout, Keith	NA	NA	NA ·	II++
Urban, Michael	NA	NA	NA	II++
Wasko, Shawn	NA	NA	NA	II++
Whitaker, Robert	NA	NA	NA	III++
Williams, Larry	NA	NA	NA	II+
Winney, Ryan	NA	NA	NA	II++
Wirtz, Charles	NA	NA	IIL	III
Wolf, Ronald	NA	NA	NA	II+
Zaharewicz, Kurt	NA	NA	NA	II+

^{+ -} Limited to VT-2 only
++ - Limited to in-vessel VT-1 and VT-3 examinations only
+++ - Limited to VT-3 only
* - Limited to thickness and contour examinations only
** - PDI qualified personnel for manual and/or automated UT
*** - Limited to automated UT data acquisition only
^ - Limited to Phased Array Jet Pump Beam UT examinations only

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 Quality Assurance Department 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 12 operations and RFO12:

THERMOMETERS

Mamutagaus	ic Model No.	PNPP METE NO.
OMEGA	450 Digital	L80Z0103A
OMEGA	450 Digital	L80Z0103B
OMEGA	450 Digital	L80Z0103D
OMEGA	450 Digital	L80Z0103N
OMEGA	450 Digital	L70M0019F
OMEGA	450 Digital	L70M0019J

MAGNETIC PARTICLE EQUIPMENT

Manuala etuber 🗰	Mode	21.31	Voj.	ENPR MEIL No. "
Parker	B-300	AC	Yoke	PAR-ACMT-049
Parker	B-300	AC	Yoke	PAR-ACMT-058

MAGNETIC PARTICLE MATERIALS

. :: Maiorbira(cittoraja	TMOE	Batch No. 1
Magnaflux	1 Gray Powder	38118

ULTRASONIC FLAW DETECTORS

View oute @ in the end	. Wodel	Sergial No. 1
PANAMETRICS	Epoch 4	061487310
PANAMETRICS	EPOCH 4	081579202
PANAMETRICS	EPOCH 4	081577402
Zetec+	MICRO TOMOSCAN	133892
Zetec+	MICRO TOMOSCAN	18121-07
Zetec+	MICRO TOMOSCAN	228337-03

⁺ Used for Auto DM weld exams.

ULTRASONIC COUPLANTS

Manusaciuses.	Type(a)	Batch Nose: 45
Sonotech	Ultragel II	92125

TRANSDUCERS APPROVED FOR USE FOR MANUAL EXAMS

		MARAMARANIA MARAMARANIA MARAMARANIA MARAMARANIA MARAMARANIA MARAMARANIA MARAMARANIA MARAMARANIA MARAMARANIA MA	r i cesu sangag kilama yasa hi kin minina. Mangalan isangan kilama yan mangabili mi	arma ocer recent mikisti se SMA kuarne kemin niferaca mana musiku 1984 ki 198	are a secondario de la compansa de l
Manufacturer			Size	Frequency	
Transcript of the state of the		Туре 		TTEGINEY.	31915
	Number:		- TA	10 0 100	0
Harisonic	3251	A10	.50	10.0 MHz	0
Harisonic	6869	A10	.50"	10.0 MHz 2.25 MHz	
KBA	00C520	Comp-G	.375"		N/A
KBA	00CT34	Comp-G	.375	1.5 MHz	N/A
KBA	00MPX8	Comp-G	.50"	1.5 MHz	N/A
KBA	00MXB4	Comp-G	.50"	2.25 MHz	N/A
KBA	01DXNH	Comp-G	.375"	2.25 MHz	N/A
KBA	01F4WN	Comp-G	.375"	5.0 MHz	N/A
KBA	01FC6J	Comp-G	.375"	5.0 MHz	N/A
KBA	01FC6L	Comp-G	.375"	5.0 MHz	N/A
KBA	01FYW9	Comp-G	.375"	5.0 MHz	N/A
KBA	01FYWD	Comp-G	.375"	5.0 MHz	N/A
KBA	01H1WP	Comp-G	.375"	2.25 MHz	N/A
KBA	01H2MF	Comp-G	.375"	1.5 MHz	N/A
KBA	01H2MH	Comp-G	.375"	1.5 MHz	N/A
KBA	01H2MJ	Comp-G	.375"	1.5 MHz	N/A
KBA	01H6D1	Comp-G	.375"	1.5 MHz	N/A
KBA	01H6D2	Comp-G	.375"	2.25 MHz	N/A
KBA	01H6D6	Comp-G	.375"	2.25 MHz	N/A
KBA	01J9H1	FDCP-XDCR	.50"	2.25 MHz	0
KBA	01JB0M	Comp-G	.5"	5.0 MHz	N/A
KBA	01JB0N	Comp-G	.5"	5.0 MHz	N/A
KBA	01JB0P	Comp-G	.5"	5.0 MHz	N/A
KBA	01JB58	Comp-G	.25"	2.25 MHz	N/A
KBA	01JB59	Comp-G	.25"	2.25 MHz	N/A
KBA	01JB5B	Comp-G	.25"	2.25 MHz	N/A
KBA	01JB5C	Comp-G	.25"	2.25 MHz	N/A
KBA	01JBR1	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBR3	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBR4	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBR5	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBRK	Comp-G	.5"	5.0 MHz	N/A
KBA	01JBRL	Comp-G	.5"	5.0 MHz	N/A
KBA	01JCT0	Comp-G	.25"	5.0 MHz	N/A
KBA	01JCTK	Comp-G	.5"	2.25 MHz	N/A ·
KBA	01JCTL	Comp-G	.5"	2.25 MHz	N/A °
KBA	01JHFT	Comp-G	.5"	2.25 MHz	N/A
KBA	01JL02	Comp-G	.25"	2.25 MHz	N/A
KBA	01JNKV	Comp-G	.5	1.5 MHz	N/A
KBA	01JNKX	Comp-G	.5	1.5 MHz	N/A
KBA	01JNKY	Comp-G	.5	1.5 MHz	N/A
KBA	01JNVP	FDCP-XDCR	.375"	3.5 MHz	0
		FHP			
KBA	01JNVR	FDCP-XDCR	.375"	3.5 MHz	0
	01.75377	FHP		1 5 577	27 /2
KBA	01JP1V	Comp-G	.5	1.5 MHz	N/A
KBA	01JP5X	FDCP-XDCR	.50"	3.5 MHz	0
777) 7	01 7057	F-HP	.50"	3 E MIT-	<u> </u>
KBA	01JP5Y	FDCP-XDCR	.50"	3.5 MHz	0
WDA .	01 TD61	F-HP	.25"	S O MIX-	0
KBA	01JP61	FDCP-XDCR		5.0 MHz	
KBA	01JP62	FDCP-XDCR	.25"	5.0 MHz	0
KBA	01JP68	FDCP-XDCR	.375"	5.0 MHz	0
KBA	01JP6B	FDCP-XDCR	.375"	5.0 MHz	0
KBA	01JP6J	FDCP-XDCR	.50"	2.25 MHz	0
KBA	01JP6L	Comp-G	.5"	5.0 MHz	N/A
KBA	01JP6M	Comp-G	.5"	5.0 MHz	N/A

Maria di Tata da Maria da Mari	STREET,		www.comerconicies		n ar dorision
Manufacturer	Serial	Турец	Size	Frequency	
	THE PARTY OF STATE OF				
	Number	Active and the second s			
KBA	01JPWC	FDCP-XDCR	.25"	2.25 MHz	0
KBA	01JPWD	FDCP-XDCR	.25"	2.25 MHz	0
KBA	01JR8J	FDCP-XDCR	. 375"	2.25 MHz	0
KBA	01JR8K	FDCP-XDCR	. 375"	2.25 MHz	0
KBA	01L7WV	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7WW	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7WX	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7WY	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7X0	Comp-G	.250"	1.5 MHz	N/A
KBA	01LJC5	FDCP-XDCR	.25"	3.5 MHz	0
KBA	01LJC7	FDCP-XDCR	.25"	3.5 MHz	0
KBA	01P7DH	FDCP-XDCR	.375"	10.0 MHz	0
KBA	574613965	MSEB 2	(½ ø11)	2.0 MHz	0
			mm		
KBA	574614023	MSEB 2	(½ Ø11)	2.0 MHz	0
1			mm		
KBA	5746220467	MSEB-4	3.5 x 10	4.0 MHz	0
KBA	5746220492	MSEB-4	3.5 x 10	4.0 MHz	0
KBA	SE0082	Comp-G	.5"	2.25 MHz	N/A
Panametrics	284242	A111S	.50"	10.0 MHz	0
Panametrics	288670	A111S	50"	10.0 MHz	0

TRANSDUCERS APPROVED FOR USE FOR AUTOMATED EXAMS

				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.5 C
Manufacturer	Real States	Type .	Size	Frequency	And I
	Number	-XP-		a de la compa	
RTD	00-339	45°T1.5-Aust	ELL(16 x	2.0 MHz	45
KID	00333	45 11.5 Aust	10) mm	2.0 m2	10
RTD	00-343	TRL2-Aust	2(10x18) mm	2.0 MHz	60
RTD	00-351	70°TRL2-Aust	2(10 X	2.0 MHz	70
			18) mm		
RTD	00-354	70°TRL2-Aust	2(10x18) mm	2.0 MHz	70
RTD	02-234	0°TRL-2 Aust.	2(½ ø10) mm	2.0-MHz	0
RTD	02-235	0° TRL-4	2(½ ø10) mm	4.0 MHz	0
		Aust			
RTD	03-175	TRL2-Aust	2(7x10) mm	2.0 MHz	45
RTD	03-176	TRL2-Aust	2(7x10) mm	2.0 MHz	45
RTD	03-186	42°TRL2-Aust	2(8x14) mm	2.0 MHz	42
RTD	03-337	45°TRL1-Aust	2(10x18) mm	1.0 MHz	45
RTD	03-338	45°TRL2-Aust	2(10x18) mm	1.0 MHz	45
RTD	03-678	45° TRL1-Aust	2(20X34) · mm	1.0 MHz	45
RTD	03-679	60°TRL1-Aust	2(20X34) mm	1.0 MHz	60
RTD	03-681	45°TRL1-Aust	2(15x25) mm	1.0 MHz	45
RTD	03-682	45°TRL1-Aust	2(15x25) mm	1.0 MHz	45
RTD	03-683	60°TRL1-Aust	2(15x25) mm	1.0 MHz	60
RTD ·	03-684	60°TRL1-Aust	2(15x25) mm	1.0 MHz	60
RTD	04-281	60°TRL2-Aust	2(7 x 10)mm	2.0 MHz	60
RTD	04-282	60°TRL2-Aust	2(7 x 10)mm	2.0 MHz	60
RTD	04-284	45°TRL2-Aust	2(7 x 10)mm	2.0 MHz	45
RTD	04-286	45°TRL2-Aust	2(7 x 10)mm	2.0 MHz	45
RTD	04-287	70°TRL2-Aust	2(7x10) mm	2.0 MHz	70
RTD	04-288	70°TRL2-Aust	2(7x10) mm	2.0 MHz	70
RTD	04-289	70°TRL2-Aust	2(7x10) mm	2.0 MHz	70
RTD	04-290	70°TRL2-Aust	2(7x10) mm	2.0 MHz	70
RTD	04-292	42°TRL2-Aust	2(8 x 14)mm	2.0 MHz	42

SERVED SERVED AND A			LINE SAN PROPERTY		eralization
Manufachirer	Serial	Type	Size : 255 i	Frequency	Angle:
	Number	Subject of the Property			
RTD	04-294	45°TRL2-Aust	2(8 x 14)mm	2.0 MHz	45
RTD	04-296	45°T1.5-Aust	(16 x 10)mm	1.5 MHz	45
RTD	04-298	45°T1.5-Aust	(24x17) mm	1.5 MHz	45
RTD	04-303	45°TRL2-Aust	2(10x18) mm	2.0 MHz	45
RTD	04-307	70°TRL2-Aust	2(10x18) mm	2.0 MHz	70
RTD	04-314	60°TRL1-Aust	2(10x18)mm	1.0 MHz	60
RTD	04-315	60°TRL1-Aust	2(10 X 18)mm	1.0 MHz	60
RTD	04-317	60°TRL1-Aust	2(10x18) mm	1.0 MHz	60
RTD	04-318	45°TRL2-Aust	2(15 X	2.0 MHz	45
			25) mm		
RTD	04-319	45°TRL2-Aust	2(15 X 25)mm	2.0 MHz	45
RTD	04-322	60°TRL2-Aust	2(15 X 25)mm	2.0 MHz	60
RTD	04-323	60°TRL2-Aust	2(15 X 25)mm	2.0 MHz	60
RTD	04-324	70°TRL2-Aust	2(15 X 25)mm	2.0 MHz	70
RTD	04-325	70°TRL2-Aust	2(15 X 25) mm	2.0 MHz	70
RTD	04-327	70°TRL2-Aust	2 (15 X 25) mm	2.0 MHz	70
RTD	04-331	45°TRL1-Aust	2(15 X 25)mm	1.0 MHz	45
RTD	04-336	60°TRL1-Aust	2 (15 X 25) mm	1.0 MHz	60
RTD	04-337	60°TRL1-Aust	2 (15. X 25) mm	1.0 MHz	60
RTD	04-341	45°TRL1-Aust	2 (20 x 34) mm	1.0 MHz	45
RTD	04-342	45°TRL1-Aust	2 (20 x 34) mm	1.0 MHz	45
RTD	04-344	60°TRL1-Aust	2(20x34) mm	1.0 MHz	60
RTD	04-347	60°TRL1-Aust	2(20 x 34)mm	1.0 MHz	60
RTD	04-429	45° TRL1-Aust	2(15x25) mm	1.0 MHz	45
RTD	05-1054	'60° TRL2-Aust	2(15x25) mm	2.0 MHz	60
RTD	05-1055	60° TRL2-Aust	2(15x25) mm	2.0 MHz	60
RTD	05-139	45° TRL1-Aust	2(20 X 34)	2.0 MHz	45
			. mm		
RTD	05-141	45° TRL2-Aust	2(15x25) mm	2.0 MHz	45
RTD	05-144	60° TRL1-Aust	2(20 X 34) mm	2.0 MHz	60
RTD	05-146	60° TRL2-Aust	2(10x18)mm	2.0 MHz	60
RTD	05-147	60° TRL2-Aust	2(7x10) mm	2.0 MHz	60
RTD	05-159	45°TRL1-Aust	2(10x18) mm	1.0 MHz	45
RTD	05-160	45° TRL1-Aust	2(10x18) mm	1.0 MHz	45
RTD	05-174	45° TRL2-Aust	2(15x25) mm	2.0 MHz	45
RTD	05-175	60° TRL2-Aust	2(7x10) mm	2.0 MHz	60
RTD	05-176	70° TRL2-Aust	2(7x10) mm	2.0 MHz	70
RTD	06-502	0° TRL-2 Aust	2(½ ø10) mm	2.0 MHz	0
RTD	06-505	45°T 1.5-Aust	(24×17) mm	1.5 MHz	45
RTD	06-506	45°T 1.5-Aust	(24x17) mm	1.5 MHz	45
RTD	06-508	42°TRL2-Aust	2(8x14) mmm	2.0 MHz	42
RTD	98-144	45°T-1.5 Aust	(16x10) mm	1.5 MHz	45
RTD	98-154	45°T-1.5 Aust	(24x17) mm	1.5 MHz	45
RTD	98-156	45°T-1.5 Aust	(24x17) mm	1.5 MHz	45
RTD	98-158	45°T 1.5-Aust	(24 x 17) mm	1.5 MHz	45
RTD	98-161	45°TRL2-Aust	2(10x18) mm	2.0 MHz	45
RTD	98-163	45°TRL2-Aust	2(10X18)mm	2.0 MHz	45

Manufacturer	A CONTRACTOR OF THE PARTY OF TH	Type	Size	Frequency	Angle I
RTD	98-166	45°TRL2-Aust	2(10x18) mm	2.0 MHz	45
RTD	98-174	60°TRL2-Aust	2(10x18) mm	2.0 MHz	60
RTD	98-232	60°TRL1-Aust	2(10x18) mm	1.0 MHz	60
RTD	98-537	45°T1.5-Aust	(16x10) mm .	1.5 MHz	45
RTD	98-543	60°TRL2-Aust	2(10 X 18)mm	2.0 MHz	60
RTD ·	98-545	70°TRL2-Aust	2(10 X 18)mm	2.0 MHz	70
RTD	99-511	0° TRL4-Aust	2(½ ø10) mm	4.0 MHz	0

6.0 CALIBRATION STANDARDS

Ultrasonic calibration standards approved for use for ISI related work activities during Cycle 12 operations and RFO12 are as listed below:

	CAUTHBRATTION STANDARD	EDENIETE CATTON NUM	IBERSPER ALTERIS
CAL-DPTH-071	CAL-DPTH-073	CAL-DPTH-080	CAL-DPTH-57
CAL-IIW2-002	CAL-IIW2-012	CAL-IIW2-016	CAL-IIW2-028
CAL-IIW2-030	CAL-IIW2-050	CAL-IIW2-055	CAL-PDI-001
CAL-PDI-002	CAL-PDI-003	CAL-RHOM-004	CAL-RHOM-004
CAL-RHOM-008	CAL-RHOM-015	CAL-RHOM-051	CAL-RHOM-058
CAL-RHOM-082	CAL-RHOM-085	CAL-RHOM-093	CAL-RHOM-095
CAL-RHOM-099	CAL-RHOM-101	CAL-RHOM-103	CAL-RHOM-125
CAL-RHOM-126	CAL-STEP-096	CAL-STEP-120	CAL-STEP-138
CAL-STEP-163	CAL-STEP-168	CAL-STEP-173	CAL-STEP-179
CAL-STEP-189	CAL-STEP-190	CAL-STEP-191	CAL-STEP-192
CAL-STEP-195	GE-JPBEAM-BLK	PY-1.5-RHR	PY-10-80-CS
PY-12-40-CS	PY-127-1-RPV	PY-12-XX1-SS	PY-14-XX1-CS-F
PY-18-40-CS	PY-20-120-CS	PY-4-80-SS	PY-IR-RHR
PY-SE-BI-3	PY-STUD-LPCS-2.25-CS	PY-VALVE-XX1-CS	PY-VALVE-XX2-CS

7.0 PROCEDURES AND INSPECTION PLANS

The examination procedures and inspection plans used during Cycle 12 operations and RFO12 were as follows:

Perry NDE Procedures:

PROCEDURE#	Rev.	TTEENTER
NQI-0952	9	Radiographic Operations and Examinations
NQI-0942	11	Magnetic Particle Examination
NQI-0944	11	Ultrasonic Examination (General Procedure)
NQI-1042	13	Visual Examination .
Ultrasonic ND	E Insp	ection Plans Used with NQI-0944:
NDE-002	7	Ultrasonic Instrument Linearity Verification
NDE-008	13	Manual Ultrasonic Examination of Ferritic Piping Welds
NDE-012	5	Straight Beam Ultrasonic Examination of Bolts and Studs
NDE-018 .	11	Procedure for Ultrasonic Examination of Stainless Steel (Austenitic) Piping Welds for Intergranular Stress Corrosion Cracking
NDE-019	5	Ultrasonic Examination of Flued Head Penetration Attachment Welds
NDE-027	3	Ultrasonic Examination of Residual Heat Removal (RHR) System Heat Exchanger Nozzle Welds and Inner Radius Exams
NDE-030	2	Manual Ultrasonic Examination of Valve Body Welds
NDE-033	1	Ultrasonic Examination of Vessel to Skirt Weld
NDE-035	0	Ultrasonic Examination of Base Metal adjacent to Socket Welds

GEH NDE Procedures:

Procedure #6.42	DOCUMENTALITÉE A STATEMENT DE LE COMMENTALITÉE	DDR/NOTE
GE Written Practic	e for Qualification of NDE Personnel:	
386HA480 / R.20	Certification of Nondestructive Test Personnel	
GE-ADM-1025 / R.9	Procedure for Training and Qualification of Personnel for GE Energy, Nuclear Specialized NDE Applications	
GE Procedure for I	VVI & BWRVIP Required Exams	
GEH-UT-206 / R.10	Procedure for Invessel Visual Inspection (IVVI) of BWR 6 RPV Internals	
GEH-UT-547 R.1	Procedure for Automated Ultrasonic Examination of Jet Pump Beams with Phased Array Technique in Boiling Water Reactors	
GE NDE Procedures:		
GE-ÚT-209 / R.18	Procedure for Ultrasonic Examination of Dissimilar Metal Welds, and Nozzle to Safe-End Welds	DDR 07- 32 & 08-05
GE-UT-244 / R.3	Procedure for Automated Ultrasonic Examination Tomoview Analysis of Weld Overlaid Austenitic Piping Welds	DDR 07- 17
GE-UT-605 R.3	Procedure for the Performance of Straight Beam Examinations	

8.0 RELIEF REQUESTS

Due to geometric, metallurgical, and physical limitations, some of the items scheduled for examination during RFO12 received partial examinations. Within the limitations, examinations were completed to the greatest extent practical. For those Code exams in which the examination coverage achieved was less than 90%, relief requests have been submitted and approved.

Additionally, 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 to and approved by the NRC for PNPP's second 10-year Inspection Interval:

RR NO/REV	SYSTEM	TYPE RELIEF	CATEG	ITEM NO
IR-001 R-2	Reactor Pressure Vessel	Partial Exams	B-A . B-D	B1.21 B1.22 B1.40 B3.90 B3.100 B4.11
IR-007 R-1	Residual Heat Removal Low Pressure Core Spray High Pressure Core Spray Reactor Core Isolation- Cooling Feedwater Reactor Water Cleanup Main Steam	Partial Exams	B-K-1	B10.10
IR-009 R-1	Reactor Pressure Vessel	Partial Exams	B-0	B14.10
IR-012 R-2	Main Steam Residual Heat Removal High Pressure Core Spray Feedwater	Partial Exams	C-C	C3.10 C3.20
IR-013 R-1	High Pressure Core Spray Low Pressure Core Spray Residual Heat Removal	No Exams	C-G	C6.10
IR-015 R-1	Reactor Water Cleanup Residual Heat Removal Low Pressure Coolant- Injection	Partial Exams	C-C	C3.20
IR-018 R-1	Residual Heat Removal	Partial Exams	B-K-1	B10.10
IR-019 R-1	Control Rod Drive Residual Heat Removal High Pressure Core Spray	Partial Exams	C-C	C3.20
IR-021 R-4	Main Steam Emergency Closed Cooling Emergency Service Water	No Exams	D-B	D2.20
IR-023 R-1	All with Snubbers	Alternate Sampling Plan	Tech- Spec	N/A
IR-024 R-1	Reactor Pressure Vessel	Partial Exams	B-F	B5.10
IR-025 R-1	Main Steam	Alternative Exams	B-K-1	B10.10
IR-026 R-1	Main Steam Feedwater	Alternative Exams	C-C	C3.20
IR-027 R-1	Standby & HPCS Diesel Fuel Oil	Alternative Exams	D-B	D2.20
IR-030 R-1	Reactor Pressure Vessel	Alternate Exam for Circ. Shell Welds	B-A	B1.11
IR-032 R-0	Containment	Substitute App J test for VT-3	E-D	E5.10 E5.20
IR-034 R-0	Containment	Inspect new coating IAW coating program	N/A	N/A

RELIEF REQUESTS CONTINUED

RR NO/REV	SYSTEM	TYPE RELIEF	CATEG	ITEM NO
IR-035 R-0	Containment	Pre-removal coating inspection	N/A	N/A
IR-037 R-0	Containment	Delete successive exam for repairs	E-C	N/A
IR-038 R-0	Containment	Alternative to torque and tension test	E-G	E8.20
IR-039 R-0	Containment	Alternative to VT-3 lighting and resolution	N/A	N/A
IR-040 R-0	Containment	Alternate UT thickness	N/A	N/A
IR-041 R-0	Containment	Alternate Repair Records	N/A	N/A
IR-042 R-0	Reactor Vessel	Alternate Examination	В-Н	B8.10
IR-043 R-1	Reactor Water Cleanup	Alternate Categorization	B-M-1	B12.30
IR-044 R-0	Reactor Vessel	Use of Code Case N-627	B-A	B6.10
IR-045 R-0	Reactor Vessel	Use of Code Case N-623	B-A	B1.30 B1.40
IR-046 R-0	Reactor Vessel	Alternate Length Sizing Criteria	B-A	B1:10 B1:20
IR-048 R-0	N/A	Alternate UT Annual Training Requirements	N/A	N/A
IR-049 R-0	Class 1 Piping	Risk-Informed Application	B-F & B-J	All
IR-053 R-0	Re-rating for Class 3 systems	Allow use later Edition and Addenda	N/A	N/A
IR-054 R-0	Class 1 Piping	Alternate Examination Population	B-D	B3.90 · B3.100
IR-055 R-0	Class 1 Piping	No Exam	R-A	R1.16
IR-056 R-0	Reactor Vessel	Alternate Examination	B-N-2	B13.40
IR-057 R-0	Reactor Vessel	Partial Exam	B-A	B1.30
PT-001 R-1	Various non-isolable (from the RPV Boundary) Class 2 Components	Alternate System and Inservice Tests	C-H	C7.30 C7.70
PT-006 R-1	All Pressure Retaining Components within the ISI Boundary	Use of Code Case N-546	B-P C-H D-A, B & C	All for Press. Testing
PT-007 R-1	Class 3 Safety Relief Valve Discharge Piping	Alternate Hydrostatic Test	D-A	D1.10

Notes:

- 1. Relief Requests IR-016, IR-017, IR-022, and PT-003 were withdrawn in the 1st Inspection Interval; IR-004, IR-005, IR-006, IR-008, IR-010, IR-011, IR-014, IR-020, IR-028, IR-029, IR-031, PT-002, PT-004 and PT-005 were withdrawn in the 2nd Inspection Interval; IR-002, IR-033, IR-050, IR-051 and IR-052 were superseded by the approval of Code Cases N-307-3, N-599, N-695, N-663 and N-613 respectively; and IR-036, IR-047 and PT-008 were withdrawn without ever being approved.
- 2. For those Cycle 12 and RFO12 Code required examinations where the examination coverage was limited, the applicable relief request is referenced in the "remarks" column of the Examinations Results Summary (Appendix A) for the particular examination item.

9.0 SCHEDULE CHANGES

Scheduling changes were made during RFO12 to facilitate the examinations, or to account for unforeseen physical or schedule interferences, or radiological conditions. These changes differ from the schedule in Revision 13 of PNPP's Inservice Examination Program (ISEP).

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

TATIL SAMARKING	DESCRIPTION AND REASON FOR CHANGE
1E12-0336	Weld 1E12-0336 is a 12" Class 2, Category C-F-2, Item C5.51 weld that was scheduled for examination in RFO12 under Order 200173621. It is the valve 1E12-F050A to pipe weld. It is located in the Steam Tunnel. It is also within the High Energy Pipe Break Exclusion Region (HEPBER). Upon un-insulating it, it was found that there is a banded and glued wall penetration seal for Penetration PAB-3067 that is on the toe of the weld. Additionally, there is very little space between the valve and the penetration which will make removal of the boot seal difficult. Finally, the weld is an area with a dose rate of up to 280 mR/hr. As an equivalent substitution, weld 1E12-0580 will be examined. It is also a 12" Class 2, Category C-F-2, Item C5.51 weld that is located within the HEPBER. It is located in room 620-03 (RHR Bravo), does not scaffolding, does not require insulation removal, and is an area with a dose rate of only 70 mr/hr. Document Change Request (DCR) Notification 600524532 was generated to update the ISEP and the Technical Assignment File for HEPBER, TAF 81871.
1B13-JPRB-P5/P6 1B13-JPRB-P13/P14 1B13-JPRS6-P5/P6 1B13-JPRS6-P13/P14 1B13-JPRS8-P5/P6 1B13-JPTW-P05 1B13-JPTW-P06 1B13-JPTW-P13 1B13-JPTW-P13	These welds were added to the scope due to Jet Pump Main Wedge Wear found on JP06 & JP13 in accordance with BWRVIP-41.

SCHEDULE CHANGES CONTINUED

die Principal Control	CONTROL OF THE PROPERTY OF THE
MARK! NO. U.S.	DESCRIPTION AND REASON FOR CHANGE
1E12-B001D-SB2-WA	Welded attachment 1E12-B001D-SB2-WA
	Is a Class 2, Category C-Cc, Item C3.10 that was scheduled for examination under order
	200173680. Due to the radiological conditions in the area, this welded
	attachment was replaced, as an equivalent substitution with 1E12-B001D-SB3-WA.
1E12-F0010-IS	20" Gate Valve 1E12-F0010-IS is a Class 1, Category B-M-2, Item C12.50 (Valve Grouping # XI per ISEP) that was added to the
	examination scope due to emergent valve repair under order 200365416. ISEP requires an internal VT-3 any time a valve in this
	grouping is opened due to maintenance, 1 valve once per Interval.
1E12-F0019-IS	6" Check Valve 1E12-F0019-IS is a Class 1, Category B-M-2, Item C12.50 (Valve Grouping # XIV per ISEP) that was originally scheduled for examination due to Preventive Maintenance Order 200280448. That order was
	removed from the scope of RFO12 and the valve was not dissembled therefore the
	internal VT-3 of 1E12-F0019-IS is deleted from RF012.
1E12-F0067A-IS	24" Gate Valve is a Class 1, Category B-M-2, Item C12.50 (Valve Grouping # VIII per ISEP) was scheduled for examination due to
	Corrective Maintenance Order 200005691, ECP 03-0011 and therefore the internal VT-3 of valve was scheduled for examination in
	RFO12.

10.0 EXAMINATION SUMMARY RESULTS

RFO12 was the last refueling outage of Perry's second 10-Year Inservice Inspection Interval and it marked the completion of the third inspection period. Not including pressure testing VT-2 exams that are completed every period, completion percentages at the end of the second period are reported as follows:

<u>CATEGORY</u> RI	EQUIRED COMPLETION %1	ACTUAL COMPLETION %
B-A item B1.30 only	100	100
B-A other than B1.30	100	100
B-D	100	100
B-F	N/A See Note 2	N/A
B-G-1	100	100
B-G-2	100	100
В-Н	N/A See Note 3	N/A
B-J .	N/A See Note 2	N/A
B-K-1	N/A See Note 3	N/A
B-K of CC-N-509	100	100
B-O	100	100
C-A & B	100	100
C-C	N/A See Note 3	N/A
C-C of CC-N-509	100	100
C-D	100	100
C-F-2	100	100

C-G	100	100
D-A	100	100
D-B	N/A See Note 3	N/A
D-C	N/A See Note 3	N/A
D-A of CC-N-509	100 .	100
E-A	. 100	100
F-A	N/A See Note 4	N/A
F-A of CC N-491	100	100
R-A	100	100

Notes:

- (1) The required completion percentages reflect the end of interval requirements of Tables IWB-2412-1, IWC-2412-1, IWD-2412-1, IWE-2412-1 and IWF-2412-1.
- (2) The Class 1 piping weld exams of Categories B-F and B-J were replaced by Risk Informed Category R-A in accordance with Relief Request IR-049.
- (3) The integral attachment exams of Categories B-H, B-K-1, C-C, D-A, D-B, and D-C have been replaced by Categories B-K, C-C and D-A of Code Case N-509.
- (4) The component support examinations of Category F-A have been replaced by Category F-A of Code Case N-491.

Cycle 12 and RFO12 examinations resulted in a complete and acceptable program in that all indications were evaluated for acceptance in accordance with ASME Section XI, IWA-3000, all corrective measures or evaluations were completed, and the Inspection Program B percentage completion requirements of Subsections IWB through IWF were met.

Appendix "A" is a computer-generated summary of the Cycle 12 and RFO12 examination results. Component identifications (Mark Nos.) and order of appearance may differ slightly from that listed in Revision 13 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.

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

SYS/NO.	WELL NO.	DESCRIPTION/COMMENTS	CLASS	PG:
	Reactor Pressu	re Vessel (1B13) Cycle 12 & RF012 Reports:		
1B13-053	1B13-D0008	Replaced 8 cap screws and slotted washers at CRDM flange at location 42-31.	1	69

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.		DESCRIPTION/COMMENTS		PG			
		Vessel (1B13) Cycle 12 & RF012 Reports (con	′t):				
1813-054	1B13-D0008	Replaced 20 CRDMs and 8 cap screws each at locations 26-47, 10-23, 30-27, 22-31, 30-35, 06-47, 42-31, 50-47, 10-47, 14-27, 30-23, 34-55, 26-31, 10-39, 10-11, 14-35, 18-31, 42-07, 46-11 and 8-35.					
	Main Steam	(1B21) System Cycle 12 & RF012 Reports:	<u></u>				
1B21-385	1B21 1P57	Re-rated design pressure for piping, Doc-Only ECP 06-0022	2	92			
1B21-405	1B21-H453	Replaced hydraulic snubber with like snubber along with bracket assy	1	93			
1B21-406	1В21-Н452	Replaced hydraulic snubber with like snubber and installed a load stud and 2 jam nuts.	1	94			
1B21-407	1В21-Н472	Replaced hydraulic snubber with like snubber along with bracket assy	1	95			
1B21-408	1В21-Н447	Replaced hydraulic snubber with like snubber along with bracket assy	1	96			
1B21-409	1В21-Н462	Replaced hydraulic snubber with like snubber along with bracket assy	1	97			
1B21-410	1В21-Н490	Replaced hydraulic snubber with like snubber	1	98			
1B21-411	1В21-Н446	Replaced hydraulic tandem snubbers with like snubbers	1	99			
1B21-412	1B21-H491 .	Replaced hydraulic snubber with like snubber along with bracket assy	1	100			
1B21-413	1B21-F0041E	Replaced SRV with like SRV	1	101			
1B21-414	1B21-F0041C	Replaced SRV with like SRV	1	103			
1B21-415	1B21-F0041G	Replaced SRV with like SRV	1	105			
1B21-416	1B21-F0051A	Replaced SRV with like SRV	1	107			
1B21-417	1B21-F0041A	Replaced SRV with like SRV.	1	109			
1B21-418	1B21-F0047G	Replaced SRV with like SRV	1	111			
1B21-419	1B21-F0051C	Replaced SRV with like SRV	1	113			
1B21-420	1B21-F0051G	Replaced SRV with like SRV	1	115			
1B21-421	1B21-F0047C	Replaced SRV with like SRV	1	117			
1B21-422	1B21-F0028C	Rebuilt MSIV using a new poppet	1	119			
1B21-423	1B21-F0022B	Rebuilt MSIV and replaced 1 cover stud and nut	1	122			
1B21-424	1B21-F0032B	Remove and reinstall test connection	1	124			
1B21-425	1B21-F0032A	Remove and reinstall test connection	1	126			
	longton Posing	ation (1B33) System Cycle 12 & RF012 Report		1			
		Replaced pump seal cartridge assembly		T 120			
1B33-130 1B33-131	1B33-C0001A 1B33-G7066A	Replaced pump seal cartridge assembly Replaced E-Systems hydraulic snubber with like snubber	1	128			
1B33-132	1B33-G7070A	Replaced E-Systems hydraulic snubber with like snubber	1	132			
1B33-133	1B33-F0067B	Rebuilt valve using 3 new body to bonnet studs and nuts	1	134			
1B33-134	1B33	Replaced piping flange fasteners, 11 studs and 31 nuts	1	136			
1B33-135	1B33-C0001B	Replaced pump seal cartridge assembly	1	137			
0+.	andby Liquid Con	trol (0&1C41) System Cycle 12 & RFO12 Repor	·+ o ·	┶			
1C41-039	1C41-F0029A	Replaced relief valve with like valve		139			
TC4T-033	TC4T-LOUZDA	webraced terrer varve with like AgiAe	2	139			
				L			

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	P.G		
	Posidual Heat Po	 moval (1E12) System Cycle 12 & RF012 Report	L	<u> </u>		
1E12-304	1E12-F0063C	Replaced 8" check valve with like valve	2	14		
1E12-304	1E12-F0003C	Modified support per ECP 09-0246 by	2	14		
1512-303	1E12-N0300	moving to a new elevation and re-welding	~	1 2		
1E12-306	1E12-F0063B	Replaced 8" check valve with like valve	2	14		
1E12-307	1E12-F0063A	Replaced 8" check valve with like valve	2	14		
				<u> </u>		
1E12-308	1E12-F0086	Replaced 6" check valve with like valve	1	14		
1E12-309	1E12-F0084B	Rebuilt check valve using new spring and disk	2	15		
1E12-310	1E12	Modifications made for the ADHR system, ECP 04-0270-01, used the following: 8' of 8" pipe, 12" x 8" reducing tee, 8"				
		150# gate valve and 8" elbow				
1E12-311	1E12	Modifications made for the ADHR system,	2	15		
		ECP 04-0270-01, used the following: 10" pipe, 10" gate valve, sway struts (S/N 2006-126, -128, -138, -140, & -143),				
•		3/4" plate, 10" 90° elbow and tee, 1/2"				
		plate, load stud and jam nut along with snubber (S/N 04616493/072)				
			<u> </u>	L		
		Spray (1E21) System Cycle 12 & RFO12 Repor				
1E21-040	1E21-H0022 1E21-H0024	Permanently removed support 1E21-H0022 and modified snubber 1E21-H0024 into a	2	16		
	1 1221 110021	rigid strut per ECP 04-0270-01				
1E21-041	1E21-F0018	Replaced relief valve with like valve	2	16		
1E21-042	1E21-C0002	Replaced water leg pump	2	16		
1E21-043	1E21	Modifications made for the ADHR system,	2	16		
		ECP 04-0270-01, used the following: 12' - 10" pipe (2 diff Ht #'s), 2 - 150# 10" gate vlv's, 2 - 300# 10" gate vlv's, 1 24"x10" weldolet, 2 - 24" flanges, 1 sway strut (S/N 2006-116 & 117), 1" plate, 24" pipe & tee, 40 studs and 80				
		nuts				
ні	gh Pressure Core	Spray (1E22) System Cycle 12 & RF012 Repor	rts:	L		
1E22-074	1E22-F0035	Replaced relief valve with like valve	2	17:		
2022 011	1202 10030	riopidoca iolici varto wildi ilwo varto				
React	or Core Isolatic	on Cooling (1E51) System Cycle 12 & RF012 Re	eports:			
1E51-147	1E51-F0066	Installed new disk on check valve along with 2 - 1 & 3/8" studs and 4 nuts	1	17		
1E51-148	1E51-H0072	Replaced hydraulic snubber with like snubber	1	170		
1E51-149	1E51-F0061	Replaced check valve with like valve along with C.S. pipe/angle	2	17		
1E51-150	1E51-H2074	Replaced mechanical snubber with like snubber	1	17		
1E51-151	1E51	Replaced RCIC head spray piping fasteners; 3 studs and 8 nuts on flange #1	1	18		
		eanup (1G33) System Cycle 12 & RF012 Report				
1G33-172	1G33-F0040	Replaced 6" 1500# gate valve with like valve	2	18:		
1G33-173	1G33-F0039	Replaced 6" 1500# gate valve with like	2	18		

NR-1/NIS-2 FORMS CONTINUED

	1	I		T		
SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PG		
		<u> </u>		<u> </u>		
		Racks (1H22) System Cycle 12 & RF012 Repor				
1H22-005	1H22-H2761	Replaced mechanical snubber with like	2	18		
		snubber	<u> </u>			
			1			
Coı	ntainment Vacuum	Relief (1M17) System Cycle 12 & RF012 Repo	orts:			
1M17-008	1M17-H0002	Replaced tandem mechanical snubbers with	2	188		
	1M17-H0003	like snubbers		L		
1M17-009	1M17-H0004	Replaced tandem mechanical snubbers with	2	189		
	1M17-H0005	like snubbers				
1M17-010	1M17-H0008	Replaced tandem mechanical snubbers with	2	190		
	1M17-H0009	like snubbers				
1M17-011	7-011 1M17-H0011 Replaced tandem mechanical snubbers with					
	1M17-H0012	like snubbers				
Co	ombustible Gas Co	ontrol (1M51) System Cycle 12 & RF012 Repor	rts:			
1M51-028	1M51-F010B	(Corrected Copy of 1M51-028) Replaced 36	2	192		
		body to bonnet nuts on valve				
1M51-029	1M51-F010A	Replaced 36 body to bonnet nuts on valve	2	193		
Main, I	Reheat, Extraction	on, and Misc. Drains (1N22) System Cycle 12	& RFO1	2		
		Reports:	•			
1N22-067	1N22-H0089	Replaced mechanical snubber with like	2	194		
		snubber				
1N22-068	1N22-H0148	Replaced mechanical snubber with like	1	195		
		snubber		١		
,	Feedwater	(1N27) System Cycle 12 & RF012 Reports:				
1N27-049	1N27-F0828	Added vent valve, piping, tubing and	2	196		
		supports per ECP 04-0091.	l . –	'		
1N27-050	1N27-F0559A	Removed and reinstalled 1-3/4" test	1	197		
		connection from 20" check valve	-			
				\vdash		
Condens	sate Transfer and	i Storage (1P11) System Cycle 12 and RF012	Reports	:		
1P11-011		Replaced 12 studs and 24 nuts on valve	2	198		
V-1	1111 10000	nopiacoa 12 ocado ana 24 naco on varve		1		
			<u> </u>			

Copies of the NIS-2/NR-1 forms are contained in Appendix "B" and the corresponding starting page numbers are provided in the above table.

APPENDIX A

"CYCLE 12 & RF012 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. P0059-0012
Second Interval, Third Period, Second Outage
(RFO12)
Cycle 12 and RFO12 Inservice Examinations

Prepared by: _	Age	Date:	7/8/09
	191 Engineer	_	, ,
Reviewed by: _	Authorized Nuclear Inservice Inspector	Date: _	7/9/09

Desc	ription of C	nt Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13- BOTT	CG OM HEAD T	O SKIRT	B-Kc B10.10	UT	0944-09-E044	NRI	No relevant indications.
N/A	N/A	305-006-104					
1B13-	CG OM HEAD T	O SKIRT	B-Kc B10.10	MT	0942-09A-010	ACC	None
N/A	N/A	305-006-104					
	N4A-KB OZZLE N4A	TO SAFE-END - DM	R-A R2.11	A-UT	1Q800-09003	SAT	Achieved 100% code coverage and 4 fabrication flaws identified were sized and evaluated per Table IWA-3514.2 and found to be acceptable.
12"	1.16"	305-006-108	•				·
	N4B-KB OZZLE N4B	TO SAFE-END - DM	R-A R2.11	· A-UT	1Q800-09002	SAT	Achieved 100% code coverage and no relevant indications were recorded.
12"	1.16"	305-006-108					
	N4C-KB OZZLE N4C	TO SAFE-END - DM	R-A R2.11	A-UT	1Q800-09-006	SAT	Exam of the pre-existing weld-overlay which recorded 2 previously identified indications were exhibited no significant change and the original crack which does not
12*	1.16"	305-006-108					appear to have changed since application of the overlay.
	N4D-KB OZZLE N4D	ΓO SAFE-END - DM	R-A R2.11	A-UT	1Q800-09-025	SAT	Achieved 100% code coverage, no relevant indications were recorded.
12"	1.16"	305-006-108					
	N4F-KB OZZLE N4F 1	O SAFE-END - DM	R-A R2.11	A-UT	1Q800-09004	SAT	Achieved 100% code coverage and no relevant indications were recorded.
12"	1.16°	305-006-108					•
		A TO SAFE-END -	R-A R1.14	A-UT	1Q800-09-026	SAT	Achieved 100% code coverage and no relevant indications were recorded.
12"	1.125"	305-006-109					
		B TO SAFE-END -	R-A R1.14	A-UT	1Q800-09-027	SAT	Achieved 100% code coverage and no relevant indications recorded.
12"	1.125"	305-006-109					
	16A-KB OZZLE N6A	TO SAFE-END - DM	R-A R1.14	A-UŢ	1Q800-09-028	UNSAT	Achieved 100% code coverage. Recorded relevant indications, 1 which was unacceptable per IWB-3514.2 and was evaluated under CR 09-56393. Also reference
12"	1.125"	305-006-109					CR 08-47166.
	168-KB. OZZLE N6B	TO SAFE-END - DM	R-A R1.14	A-UT	1Q800-09-029	SAT	Achieved 100% code coverage, recorded a relevant indication which was evaluated acceptable per IWB-3514.2.
12"	1.125"	305-006-109					

ID of Component Examined Description of Component	ASME Category ASME	Exam			
Size - Sched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B13-N6C-KB RHR NOZZLE N6C TO SAFE-END - DM Weld	R-A R1 14	A-UT	1Q800-09-031	UNSAT	Achieved 100% code coverage, recorded a relevant indication which was sized and evaluated per IWB-3514.2 and found to be unacceptable. It was evaluated
12" 1.125" 305-006-109					under 09-56393. Also refer to CR 08-47166.
1B13-N11-KA CORE DIFFERENTIAL PRESSURE NOZZLE	B-E B4.11	VT-2	1Q800-09-262	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-104					
1B13-N12A INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-263	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N12B INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-264	SAT .	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N12C INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-265	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N12D INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-266	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N13A INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-267	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106			•		
1B13-N13B INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-268	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N13C INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-269	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N13D INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-270	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106			•		
1B13-N14A INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-271	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					

ID of Component Examined	ASME Category				A
Description of Component Size - Sched. ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-N14B INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-272	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N14C INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-273	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1° N/A 305-006-106					
1B13-N14D INSTRUMENTATION NOZZLE	B-E B4.13	VT-2	1Q800-09-274	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-106					
1B13-N18-KA LIQUID CONTROL NOZZLE	B-E B4.11	VT-2	1Q800-09-275	. SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1" N/A 305-006-104					•
1B13-CRD-NZ 177 CONTROL ROD DRIVE NOZZLES	B-E B4.12	VT-2	1Q800-09-276	SAT	VT-2 completed as a part of ISI-B21-T1300-1. CR 09-58823 was generated to document leakage identified.
N/A N/A 305-006-110					
1B13-ICP-NZ 53 INCORE INSTRUMENTATION NOZZLES	B-E B4.13	VT-2	1Q800-09-277	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
N/A N/A 305-006-111	٠				
1B13-CSHP-P1 HP CORE SPRAY THERMAL SLEEVE TO FLOW DIVIDER WELDS (2) 10" 120 305-006-113	X-A X3.11	EVT1	1Q800-09-040	SAT	P1, Best Effort Exam, 0% EVT-1 Coverage. Minor Scratches and Punch Marks from Fabrication noted, NRI's. P1A, 25% Coverage, Additional 15% Coverage >30<60 Degrees, NRI's.
		51.54	40000 00 000	0.47	•
1B13-CSHP-CW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE	X-A X3.10	EVT1	1Q800-09-038	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees. Scratch Noted 3 O'clock RHAZ, NRI.
6" 40 305-006-113 ·					
1B13-CSHP-CW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING	X-A X3.10	EVT1	1Q800-09-039	SAT	50% Coverage, Additional 5% Coverage >30 <60 Degrees. Many Scratches, NRI's.
6° 40 305-006-113					
1B13-CSHP-CCW-P2 HP CORE SPRAY FLOW DIVIDER REDUCER WELDS	X-A X3.11	EVT1	1Q800-09-032	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees for the P2 and P2A welds. No indications.
6" 120/40 305-006-113 ·					
1B13-CSHP-CCW-P3b HP CORE SPRAY HORIZONTAL PIPE TO COUPLING	X-A X3.11	EVT1	1Q800-09-033	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees. No indications.
6° 40 305-006-113					•

ID of Component Examined Description of Component	ASME Category ASME	Exam			
Size - Sched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B13-CSHP-CCW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE	X-A X3.10	EVT1	1Q800-09-030	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees. No indications.
6" 40 305-006-113					
1B13-CSHP-CCW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-036	SAT	50% Coverage, Additional 10% Coverage >30<60 Degrees. Draw Beads Seen Below Weld, Grinding Marks, Scratches in Exam Area, NRI's.
1B13-CSHP-CCW-P6 HP CORE SPRAY COUPLING TO LOWER RISER PIPE	X-A X3.11	EVT1	1Q800-09-037	SAT	50% Coverage, Additional 5% Coverage >30<60 Degrees, Draw Beads Near Weld, NRI's.
6" 40 305-006-113					
1B13-CSHP-CCW-P4c HP CORE SPRAY LOWER RISER PIPE TO ELBOW	X-A X3.11	EVT1	1Q800-09-034	SAT	50% Coverage, Additional 15% Coverage >30<60 Degrees, Scratches and Minor Gouges in Exam Area - NRI's.
6" 40/120 305-006-113					
1B13-CSHP-CCW-P4d HP CORE SPRAY ELBOW TO SHROUD FLANGE	X-A X3.11	EVT1	1Q800-09-035	SAT	85% Coverage, Additional 5% Coverage >30<60 Degrees. Many Draw Beads, All Examined - NRI's.
6" 120/40 305-006-113 ·					
1B13-CSLP-CW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE	X-A X3.10	EVT1	1Q800-09-043	SAT	45% Coverage, Additional 5% Coverage >30 <60 Degrees. Scratches and Stains Noted, NRI's.
6° 40 305-006-113					
1B13-CSLP-CW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING	X-A X3.10	EVT1	1Q800-09-044	SAT	50% Coverage, Additional 10% Coverage >30 <60 Degrees. Discolorations, Stains and Scratches Noted, NRI's.
6" 40 305-006-113			,		
1B13-CSLP-CCW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE	X-A X3.10	EVT1	1Q800-09-041	SAT	45% Coverage, Additional 10% Coverage >30 <60 Degrees. Scratches, Rub Marks, NRI's.
6" 40 · 305-006-113					
1B13-CSLP-CCW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING	X-A X3.10	EVT1	1Q800-09-042	SAT	45% Coverage, Additional 10% Coverage >30 <60 Degrees. No indications.
6* 40 305-006-113					
1B13-CSS-7-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELDS (2)	X-A X3.20	EVT1	1Q800-09-049	SAT	35% Coverage, Additional 5% Coverage >30<60 Degrees for welds identified as S2-R and S2-L, no indications.
5" — 305-006-115				•	
1B13-CSS-7-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2)	X-A X3.20	EVT1	1Q800-09-050	SAT	45% Coverage, Additional 10% Coverage >30<60 Degrees 090 Degree Side, 50% Coverage Additional 5% Coverage >30<60 Degrees 270 Degree Side.
5" - 305-006-115					Scratches and Minor Gouges - NRI's.

Desc	ription of (nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	CSS-7-SB SPRAY SP	ARGER BRACKETS	X-A X3.22	VT-1	1Q800-09-051	SAT	SB-0 - 75%, SB-020 - 75%, SB-032 75%, SB-050 - 70%, SB-069 - 75%, SB-081 - 75%, SB-280 - 75%, SB- 293 - 75%, SB-311 - 75%, SB-342 - 75%. All - NRI's.
N/A	N/A	305-006-116					250 - 10 /0, 0D-011 - 10 /0, 0D-042 - 10 /0. All - Mid.S.
CORE	CSS-353-S2 ESPRAY SP GER PIPE V	ARGER TEE TO	X-A X3.20	EVŢ1	1Q800-09-045	SAT	40% Coverage, Additional 5% Coverage >30 <60 Degrees for welds identified as S2-L and S2-R. No indications.
CORE		ab ARGER SPRAY (2 EA NOZZ)	X-A X3.21	VT-1	1Q800-09-046	SAT	50% Coverage and no indications.
5*	-	305-006-115					
CORE	CSS-353-S4 SPRAY SP. CAP WELDS	ARGER PIPE TO	X-A X3.20	EVT1	1Q800-09-047	SAT	1B13-CSS-353-S4-090 (90 Degree Side) Coverage 45% Additional 10% Coverage >30 <60 Degrees. 1B13-Css-353-S4-270 (270 Degree Side) Coverage 60%, Additional 5% Coverage >30 <60 Degrees. No
CORE		ARGER BRACKETS	X-A X3.22	VT-1	1Q800-09-048	SAT	indications. SB-0 - 75%, SB-020 - 75%, SB-049 70%, Movement CCW of Sparger, NRI's. SB-068 - 75%, SB-081 - 55% Movement of Sparger, NRI. SB-280 - 80%, SB-292 - 75%, SB-310 - 75%, gouges, NRI. SB-329 - 75% Weld
N/A	N/A	305-006-116					Bead Overlap - NRI's. SB-341 - 75%. All - NRI's.
CORE	CSS-WA SPRAY PIP ED ATTACH N/A	ING BRACKET IMENTS 305-006-114	B-N-2 B13.30	VT-3	1Q800-09001	SAT	Exams actually performed in RFO9 under 1Q800-03-021.
INA	IV/A						,
GUIDE	GRSB-WA EROD SUPF ED ATTACH	PORT BRACKET	B-N-2 B13.30	VT-3	1Q800-09-059	SAT	100% coverage on welds WA-0 and WA-180, no indications.
N/A	N/A	305-006-101					
		R ABOVE FW	X-A X6.15	VT-3	1Q800-09-066	SAT	100% coverage, CR 09-5541? was generated to document "no change" in crud build-up.
N/A	N/A	305-006-101					·
	RM-32/29 STRUMENT	DRY TUBE E	X-A ⁻ X2.10	VT-3	1Q800-09-052	SAT	100% coverage, no indications.
N/A	N/A	305-006-117					
	RM-32/37 STRUMENT	DRY TUBE F	X-A X2.10	VT-3	1Q800-09-053	SAT	100% coverage, no indications.
N/A	· N/A	305-006-117					
	RM-48/13 STRUMENT	DRY TUBE G	X-A X2.10	VT-3	1Q800-09-054	SAT	100% coverage, no indications.
N/A	N/A	305-006-117					•

Desc	ription of C	nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
		ioi Dwg. No.			· ·		
	IRM-48/53 NSTRUMEN	T DRY TUBE H	X-A X2.10	VT-3	1Q800-09-055	SAT	100% coverage, no indications.
N/A	N/A	305-006-117					
JET P	JPA-P3/P4 UMP NOZZL MBLY	E TO MIXER	X-A X1.30	VT-3	1Q800-09-080	SAT	100% coverage, no indications.
N/A	N/A	305-006-126					
		\$ E TO MIXER	X-A X1.30	VT-3	1Q800-09-081	SAT	100% coverage, no indications.
N/A	N/A	305-006-126					
	JPHDB-P1 UMP 1 HOLI	D DOWN BEAM	X-A X1.10	UT ··	1Q800-09005	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125	•				
	JPHDB-P2 UMP 2 HOLI	DOWN BEAM	X-A X1.10	UT	1Q800-09-007	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	JPHDB-P3 UMP 3 HOLD	DOWN BEAM	X-A X1.10	UT	1Q800-09-008	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125			•		
	JPHDB-P4 JMP 4 HOLD	DOWN BEAM	X-A X1.10	UT	1Q800-09-009	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125	•				•
	IPHDB-P5 JMP 5 HOLD	DOWN BEAM	X-A X1.10	UT	1Q800-09-010	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					•
	PHDB-P7 JMP 7 HOLD	DOWN BEAM	X-A X1.10	UT	1Q800-09-011	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	IPHDB-P8 JMP 8 HOLD	DOWN BEAM	X-A X1.10	UT	1Q800-09-012	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	PHDB-P9 JMP 9 HOLD	DOWN BEAM	X-A X1.10	UT	1Q800-09-013	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					

Desc	ription of (nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-JPHDB-P10 JET PUMP 10 HOLD DOWN BEAM			X-A X1.10	UT	1Q800-09-014	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
1B13-JPHDB-P11 JET PUMP 11 HOLD DOWN BEAM		X-A X1.10	UT	1Q800-09-015	SAT	100% coverage, no relevant indications.	
N/A	N/A	305-006-125					
	JPHDB-P12 JMP 12 HO	LD DOWN BEAM	X-A X1.10	UT	1Q800-09-016	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					•
	IPHDB-P13 JMP 13 HOI	LD DOWN BEAM	X-A X1.10	UT	1Q800-09-017	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	IPHDB-P14 JMP 14 HOL	.D DOWN BEAM	X-A X1.10	UT	1Q800-09-018	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	PHDB-P15 JMP 15 HOL	.D DOWN BEAM	X-A X1.10	UT	1Q800-09-019	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	PHDB-P16 JMP 16 HOL	.D DOWN BEAM	X-A X1.10	UT .	1Q800-09-020	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125			٠		,
	PHD8-P17 JMP 17 HOL	D DOWN BEAM	X-A X1.10	UT .	1Q800-09-021	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	PHDB-P18 IMP 18 HOL	D DOWN BEAM	X-A X1.10	UT	1Q800-09-022	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					
	PHDB-P19 IMP 19 HOL	D DOWN BEAM	X-A X1.10	UT	1Q800-09-023	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125			·		
1B13-JPHD8-P20 JET PUMP 20 HOLD DOWN BEAM			X-A X1.10	UT	1Q800-09-024	SAT	100% coverage, no relevant indications.
N/A	N/A	305-006-125					

ID of Compone Description of Size - Sched.		ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-JPLAW-P01 JET PUMP SENS ATTACHMENT W N/A N/A	ING LINE	X-A X1.20	VT-3	1Q800-09-068	SAT	100% coverage, no indications.
1B13-JPLAW-P02 JET PUMP SENS ATTACHMENT W	ING LINE	X-A X1.20	VT-3	1Q800-09-069	SAT	100% coverage, no indications.
N/A N/A 1B13-JPLAW-P03 JET PUMP SENS ATTACHMENT W	ING LINE ELDS	X-A X1.20	VT-3	1Q800-09-070	SAT	100% coverage, no indications.
N/A N/A 1B13-JPLAW-P04 JET PUMP SENS ATTACHMENT W	ING LINE	X-A X1.20	VT-3	1Q800-09-071	SAT	100% coverage, no indications.
N/A N/A 1B13-JPLAW-P05 JET PUMP SENSI ATTACHMENT W	NG LINE	X-A X1.20	VT-3	1Q800-09-072	 SAT	100% coverage, no indications.
N/A N/A 1B13-JPLAW-P06 JET PUMP SENSI	305-006-125 NG LINE	X-A X1.20	VT-3	1Q800-09-073	SAT	100% coverage, no indications identified however FME was discovered in the area. See CR 09-55507.
ATTACHMENT W N/A N/A 1B13-JPLAW-P07	305-006-125	X-A	VT-3	1Q800-09-074	SAT	100% coverage, no indications identified however FME
JET PUMP SENSI ATTACHMENT WI N/A N/A		X1.20				was discovered in the area. See CR 09-55507.
1B13-JPLAW-P08 JET PUMP SENSI ATTACHMENT WI N/A N/A		X-A X1.20	VT-3	1Q800-09-075	SAT	100% coverage, no indications.
1B13-JPLAW-P09 JET PUMP SENSII ATTACHMENT WE N/A N/A		X-A X1.20	VT-3	1Q800-09-076	SAT	100% coverage, no indications.
1B13-JPLAW-P10 JET PUMP SENSII ATTACHMENT WE		X-A X1.20	VT-3	1Q800-09-077	SAT	100% coverage, no indications.
1B13-JPRB-P5/P6	BRACE WELDS (8)	X-A X1.40	EVT1	1Q800-09-078	SAT	Examined RB-1 & RB-2 b-d welds on JP05 and RB-1 & RB-2 a-c welds on JP06 welds due to expanded scope from JP06 wedge wear and achieved 50 - 60% coverage. No indications
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Descrip	tion of Co	Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	RB-P13/P14 IP RISER B	4 RACE WELDS (8)	X-A X1.40	EVT1	1Q800-09-079	SAT	Examined RB-1 & RB-2 b-d welds on JP13 and RB-1 & RB-2 a-c welds on JP14 welds due to expanded scope from JP13 wedge wear and achieved 50 - 60%
N/A	N/A	305-006-125					coverage. No indications
	REW-P11/P IP RISER E	12 LBOW WELDS (2)	X-A X1.70	EVT1	1Q800-09-082	SAT	80% coverage on RS-1, 40% coverage on RS-2. No indications.
N/A	N/A	305-006-126					
	REW-P13/P IP RISER E	14 LBOW WELDS (2)	X-A X1.70	EVT1	1Q800-09-083	SAT	90% coverage on RS-1, 40% coverage on RS-2. Non-relevant indications noted.
N/A	N/A	305-006-126					
	REW-P15/P P RISER E	16 LBOW WELDS (2)	X-A X1.70	EVT1	1Q800-09-084	SAT	90% coverage on RS-1, 40% coverage on RS-2. Non-relevant indications noted.
N/A I	N/A	305-006-126					
JET PUM	RS3-P1/P2 PRISER P ION PIECE		X-A X1.71	EVT1	1Q800-09-085	SAT	48% coverage and no indications.
Ņ/A M	N/A	305-006-126					
TRANSITI	P RISER PI ION PIECE	WELD	X-A X1.71	EVT1	1Q800-09-086	SAT	35% coverage and no indications.
N/A N	N/A	305-006-126					
	RS3-P5/P6 PRISER PI ION PIECE		X-A X1.71	EVT1	1Q800-09-087	SAT	47% coverage and non-relevant indications noted.
N/A N	N/A	305-006-126					,
	IS3-P7/P8 PRISER PI ION PIECE		X-A X1.71	EVT1	1Q800-09-088	SAT	30% coverage and non-relevant indications noted.
N/A N	V/A	305-006-126			,		
JET PUMF TRANSITI	S3-P9/P10 PRISER PI ON PIECE I/A	PE TO	X-A X1.71	EVT1	1Q800-09-089	SAT	30% coverage and no indications noted.
RESTRAIN	P RISER PI NER BRAC	PE TO KET WELDS (2) 305-006-126	X-A X1.72	EVT1	1Q800-09-090	SAT	80% coverage on the RS6/7 bracket weld on the JP06 side, examined due to main wedge wear on JP06. No indications.
JET PUMF RESTRAIN			X-A X1.72	EVT1	1Q800-09-091	SAT	70% coverage on the RS6/7 weld, JP13 side exam due to main wedge wear on JP13. Non-relevant indications noted.

ID of Component Examined Description of Component	ASME Category ASME	Exam			
Size - Sched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B13-JPRS8-P5/P6 JET PUMP RISER PIPE TO RISER BRACE YOKE WELDS (2) N/A N/A 305-006-125	X-A X1.72	EVT1	1Q800-09-092	SAT	50% coverage on RS-8 and RS-9, non-relevant indications noted. Exam due to scope expansion from main wedge wear on JP06.
1B13-JPRS8-P13/P14 JET PUMP RISER PIPE TO RISER BRACE YOKE WELDS (2) N/A N/A 305-006-125	X-A X1.72	EVT1	1Q800-09-093	SAT	45% coverage on RS-8, 50% coverage on RS-9, non- relevant indications noted. Exam due to scope expansion from main wedge wear on JP13.
1B13-JPTW-P05 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-1	1Q800-09-094	EVAL	Setscrew gaps (JPSS1) were examined on VS & SS for JP05. Gap noted on VS, refer to CR 09-55819-01. Tack welds (JPSS2) were examined VS & SS, 50 100% coverage with no indications.
1B13-JPTW-P06 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-1	1Q800-09-095 	SAT	Setscrew gaps (JPSS1) were examined on VS & SS for JP06. No gap noted.
1B13-JPTW-P13 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-1	1Q800-09-096	EVAL	Setscrew gaps (JPSS1) were examined on VS & SS for JP13. Gaps noted on both sides, refer to CR 09-55819-01. Tack welds (JPSS2) were examined VS & SS, 100% coverage with no indications.
1B13-JPTW-P14 JET PUMP RESTRAINER ADJUSTING SCREW TACK WELDS N/A N/A 305-006-125	X-A X1.50	VT-1	1Q800-09-097	EVAL	Setscrew gaps (JPSS1) were examined on VS & SS for JP14. Gaps noted on both sides, refer to CR 09-55819-01. Tack welds (JPSS2) were examined VS & SS, 100% coverage with no indications.
1B13-JPWD-P1/P2 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-100	EVAL	100% Coverage on both P01 and P02, minor rod wear observed. See CR 09-55400.
1B13-JPWD-P3/P4 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-101	EVAL	100% Coverage on both P03 and P04, minor rod wear observed. See CR 09-55400.
1B13-JPWD-P5/P6 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-098	EVAL	100% Coverage on both P05 and P06, minor rod wear observed. See CR 09-55400. Wedge wear noted on JPWD-P06, see CR 09-54819.
1B13-JPWD-P7/P8 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-102	EVAL	100% Coverage on both P07 and P08, minor rod wear observed. See CR 09-55400.
1B13-JPWD-P9/P10 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-103	EVAL	100% Coverage on both P09 and P10, minor rod wear observed. See CR 09-55400.

ID of Component Examined Description of Component	ASME Category ASME	Exam			
Size - Sched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B13-JPWD-P11/P12 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-104	EVAL	100% Coverage on both P11 and P12, minor rod wear observed. See CR 09-55400.
1B13-JPWD-P13/P14 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-099	EVAL	100% Coverage on both P13 and P14, minor rod wear observed. See CR 09-55400. Wedge wear noted on JPWD-P13, see CR 09-54819.
1B13-JPWD-P15/P16 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-105	EVAL	100% Coverage on both P15 and P16, minor rod wear observed. See CR 09-55400.
. 1B13-JPWD-P17/P18 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-106	EVAL	100% Coverage on both P17 and P18, minor rod wear observed. See CR 09-55400.
1B13-JPWD-P19/P20 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-09-107	EVAL	100% Coverage on both P19 and P20, minor rod wear observed. See CR 09-55400.
1B13-LPRM-SAMP LPRM INSTRUMENT DRY TUBES 10% SAMPLE N/A N/A 305-006-117	X-A X2.11	VT-3	1Q800-09-056	SAT	LPRM-08-25, 08-33, 24-57, 32-09 and 48-49 were examined, 100% coverage with no indications.
1B13-SD-AH1 HOOD TO BANK HORIZ END PANEL WELD, TOP N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-108	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AH2 BANK LOWER VERT END PANEL TO BANK BOTTOM PANEL WELD, 0 DEG N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-109	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-110	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AH4 HOOD TO COVER PLATE WELD	X-A X4.12	VT-1	1Q800-09-111	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129					•
1B13-SD-AH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-112	SAT	100% coverage, non-relevant indications noted.

ID of Component Ex-		ASME Category ASME	Exam		,	
Size - Sched ISI		Item No.	Method	Exam Report No.	Status	Remarks
1B13-SD-AH6 BANK LOWER VERT EI BANK BOTTOM PANEL N/A N/A 30		X-A X4.12	VT-1	1Q800-09-113	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AHS1 HOOD TO HOOD STIFF DEG SIDE	FENER WELD, 0	X-A X4.12	VT-1	1Q800-09-114	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305	5-006-129					
1B13-SD-AHS2 HOOD TO HOOD STIFF 180 DEG SIDE	ENER WELD,	X-A X4.12	VT-1	1Q800-09-115	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305	5-006-129					
1B13-SD-AV1 . BANK VERT END PANE OUTLET PLENUM END		X-A X4.12	VT-1	1Q800-09-116	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305	5-006-129					
1B13-SD-AV2 BANK VERT END PANE END PLATE WELD, 0 DI		X-A X4.12	VT-1	1Q800-09-117	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305	5-006-129			•		
1B13-SD-AV3 HOOD TO HOOD END F DEG SIDE		X-A X4.12	VT-1 .	1Q800-09-118	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305	5-006-129					
1B13-SD-AV4 HOOD TO HOOD END P 180 DEG SIDE	PLATE WELD,	X-A X4.12	VT-1	1Q800-09-119	SAT	100% coverage, non-relevant indications noted.
	-006-129				,	
1B13-SD-AV5 BANK VERT END PANEL END PLATE WELD, 180 N/A N/A 305		X-A X4.12	VT-1	1Q800-09-120	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV6 BANK VERT END PANEI OUTLET PLENUM END I N/A N/A 305	LS TO	X-A X4.12	VT-1	1Q800-09-121	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BH3 HOOD END PLATE TO U		X-A X4.12	VT-1	1Q800-09-122	SAT	100% coverage, non-relevant indications noted.
SUPPORT RING WELD,						
N/A N/A 305-	-U00-129					
1B13-SD-BH5 HOOD END PLATE TO U SUPPORT RING WELD,	JPPER	X-A X4.12	VT-1	1Q800-09-123	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-	-006-129					

ID of Component Examined	ASME Category				
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-BV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-124	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-125	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BV6 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE	X-A X4.12	VT-1	1Q800-09-126	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129 1B13-SD-BV7 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE	X-A X4.12	УТ-1	1Q800-09-127	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129 1B13-SD-CH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-128	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-129	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-130	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE	X-A X4.12	VT-1	1Q800-09-131	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129 1B13-SD-CV6 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-132	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV7 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-133	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CP-90 COVER PLATE TO UPPER SUPPORT RING WELD, 90 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-134	SAT	100% coverage, non-relevant indications noted.

ID of Component Examined	ASME Category				
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-CP-270 COVER PLATE TO UPPER SUPPORT RING WELD, 270 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-135	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC1-H DRAIN CHANNEL 1 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-136	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC2-H DRAIN CHANNEL 2 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-137	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC3-H DRAIN CHANNEL 3 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1 .	1Q800-09-138	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC4-H DRAIN CHANNEL 4 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-139	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC5-H DRAIN CHANNEL 5 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-140	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC6-H DRAIN CHANNEL 6 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-141	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC7-H DRAIN CHANNEL 7 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-142	SAT	95% coverage, non-relevant indications noted.
1B13-SD-DC8-H DRAIN CHANNEL 8 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-143	SAT ·	100% coverage, non-relevant indications noted.
1B13-SD-DC-V1 FIRST VERTICAL WELD OF DRAIN CHANNEL 1 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-144	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V2 SECOND VERTICAL WELD OF DRAIN CHANNEL 1 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-145	SAT	100% coverage, non-relevant indications noted.

ID of Compo	nent Examined	ASME Category		•		
Description	of Component ed ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-DC-\ FIRST VERTIC CHANNEL 2	/3 CAL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-146	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V SECOND VER CHANNEL 2	/4 TICAL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-147	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V FIRST VERTIC CHANNEL 3	/5 AL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-148	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V SECOND VER CHANNEL 3	6 TICAL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-149	SAT	100% coverage, non-relevant indications noted.
N/A N/A	⁻ 305-006-128					•
1B13-SD-DC-V FIRST VERTIC CHANNEL 4	7 AL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-150	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V SECOND VER CHANNEL 4	8 TICAL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-151	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V FIRST VERTIC CHANNEL 5	9 AL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-152	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					•
1B13-SD-DC-V SECOND VERT CHANNEL 5	10 FICAL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-153	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V FIRST VERTIC CHANNEL 6	11 AL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-154	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V SECOND VERT CHANNEL 6	12 TICAL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-155	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
1B13-SD-DC-V FIRST VERTICA CHANNEL 7	13 AL WELD OF DRAIN	X-A X4.12	VT-1	1Q800-09-156	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-DC-V14 SECOND VERTICAL WELD OF DRAIN CHANNEL 7	X-A X4.12	VT-1	1Q800-09-157	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-DC-V15 FIRST VERTICAL WELD OF DRAIN CHANNEL 8	X-A X4.12	VT-1	1Q800-09-158	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-DC-V16 SECOND VERTICAL WELD OF DRAIN CHANNEL 8	X-A X4.12	VT-1	1Q800-09-159	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128			·		
1B13-SD-DH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-160	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-161	SAT	100% coverage, non-relevant indications noted.
1B13-SD STEAM DRYER DRAIN CHANNELS	X-A X4.10	VT-3	1Q800-09-162	SAT	100% coverage for welds DC-V01 through V16, some non-relevant indications noted.
N/A N/A 305-006-119					
1B13-SD-DV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE	X-A X4.12	VT-1	1Q800-09-163	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129		,			,
1B13-SD-DV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE		VT-1	1Q800-09-164	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129					
1B13-SD-DV6 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE	X-A X4.12	VT-1	1Q800-09-165	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129					
1B13-SD-DV7 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-166	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EB-30 EARTHQUAKE BLOCK AT 30 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-167	SAT	75% coverage, non-relevant indications noted.

ID of Component Examined Description of Component	ASME Category ASME	Exam			
Size - Sched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B13-SD-EB-90 EARTHQUAKE BLOCK AT 90 DEG TO UPPER SUPPORT RING WELDS N/A N/A \ 305-006-128	X-A X4.12	VT-1	1Q800-09-168	SAT	95% coverage, non-relevant indications noted.
1B13-SD-EB-150 EARTHQUAKE BLOCK AT 150 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09- 1 69	SAT	75% coverage, non-relevant indications noted.
1B13-SD-EB-210 EARTHQUAKE BLOCK AT 210 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-170	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EB-270 EARTHQUAKE BLOCK AT 270 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-171	SAT	90% coverage, non-relevant indications noted.
1B13-SD-EB-330 EARTHQUAKE BLOCK AT 330 DEG TO UPPER SUPPORT RING WELDS .N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-172	SAT	95% coverage, non-relevant indications noted.
1B13-SD-EH1 HOOD TO BANK HORIZ END PANEL WELD, TOP N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-173	SĄŢ	100% coverage, non-relevant indications noted.
1B13-SD-EH2 BANK LOWER VERT END PANEL TO BANK BOTTOM PANEL WELD, 0 DEG N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-174	SAT 	100% coverage, non-relevant indications noted.
1B13-SD-EH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-175	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH4 HOOD TO COVER PLATE WELD	X-A X4.12	VT-1	1Q800-09-176	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-129					
1B13-SD-EH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-177	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH6 BANK LOWER VERT END PANEL TO BANK BOTTOM PANEL WELD, 180 N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-178	SAT	100% coverage, non-relevant indications noted.

ID	of Componer	t Examined	ASME Category				·
De	escription of C		ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
НС	113-SD-EHS1 DOD TO HOOD S	STIFFENER WELD, 0	X-A X4.12	VT-1	1Q800-09-179	SAT	100% coverage, non-relevant indications noted.
N/		305-006-129					
HC	0 DEG SIDE	STIFFENER WELD,	X-A X4.12	VT-1	1Q800-09-180	SAT	100% coverage, non-relevant indications noted.
N//	A N/A	305-006-129					
BA		PANELS TO END PANEL WELD, 305-006-129	X-A X4.12	VT-1	1Q800-09-181	SAT	100% coverage, non-relevant indications noted.
BA	ID PLATE WELD	PANELS TO HOOD , 0 DEG SIDE 305-006-129	X-A X4.12	VT-1	1Q800-09-182	SAT	100% coverage, non-relevant indications noted.
HC	13-SD-EV3 OOD TO HOOD E G SIDE	END PLATE WELD, 0	X-A X4.12	VT-1	1Q800-09-183	SAT	100% coverage, non-relevant indications noted.
N/A	A N/A	305-006-129					
HC	DEG SIDE	ND PLATE WELD,	X-A X4.12	VT-1	1Q800-09-184	SAT	100% coverage, non-relevant indications noted.
N/A	A N/A	305-006-129					
BA	D PLATE WELD	PANELS TO HOOD , 180 DEG SIDE 305-006-129	X-A X4.12	VT-1	1Q800-09-185	SAT •	100% coverage, non-relevant indications noted.
BA		PANELS TO END PANEL WELD, 305-006-129	X-A X4.12	VT-1	1Q800-09-186	SAT	100% coverage, non-relevant indications noted.
			V.4) (T. 4	40000 00 407	DAT	4000/
	13-SD-HDA-S HOLD-DOWN ST	TUD .	X-A X4.12	VT-1	1Q800-09-187	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	305-006-128					
	13-SD-HDB-S HOLD-DOWN ST	TUD	X-A X4.12	VT-1	1Q800-09-188	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	305-006-128					
LIF	I3-SD-LA1 TING ROD TO U IG WELD	PPER SUPPORT	X-A X4.12	VT-1	1Q800-09-189	SAT	80% coverage, non-relevant indications noted.
N/A	N/A	305-006-130					

ID of Component Examined	ASME Category				
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-LA2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-190	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LA2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-191	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LA3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-192	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LA3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1 .	1Q800-09-193	SAT	90% coverage, non-relevant indications noted.
1B13-SD-LA4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-194	EVAL	100% coverage, relevant indication on the 90° side tack weld. Refer to CR 09-54923.
1B13-SD-LA5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-195	SAT	100% coverage, non-relevant indications noted.
1B13-SD-STRUCT STEAM DRYER STRUCTURAL	X-A X4.11	VT-3	1Q800-09-221	SAT	95% coverage on the 90° & 270° sides, non-relevant indications noted.
N/A N/A 305-006-119			•		
1B13-SD-LB1 LIFTING ROD TO UPPER SUPPORT RING WELD	X-A X4.12	VT-1	1Q800-09-196	SAT	85% coverage, non-relevant indications noted.
N/A N/A 305-006-130					
1B13-SD-LB2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-197	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LB2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-198	SAT	80% coverage, non-relevant indications noted.
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	1Q800-09-199	EVAL	100% coverage, relevant indication on the 90° side of the weld. Refer to CR 09-54661.

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-LB3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM	X-A X4.12	VT-1	1Q800-09-200	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-130 1B13-SD-LB4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS	X-A X4.12	VT-1	1Q800-09-201	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-130 1B13-SD-LB5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES	X-A X4.12	VT-1	1Q800-09-202	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-130 1B13-SD-LC1 LIFTING ROD TO UPPER SUPPORT RING WELD	X-A X4.12	VT-1	.1Q800-09-203	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-130 1B13-SD-LC2a LOWER BRACE TO BANK A END	X-A X4.12	VT-1	1Q800-09-204	SAT	100% coverage, non-relevant indications noted.
PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130 1B13-SD-LC2b LOWER BRACE PLATE TO PLATE	X-A X4.12	VT-1	1Q800-09-205	SAT	100% coverage, non-relevant indications noted.
WELD, TOP & BOTTOM N/A N/A 305-006-130 1B13-SD-LC3a UPPER BRACE TO BANK A END	X-A X4.12	VT-1	1Q800-09-206	SAT	100% coverage, non-relevant indications noted.
PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130 1B13-SD-LC3b	X-A	VT-1	1Q800-09-207	SAT	100% coverage, non-relevant indications noted.
UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130 1B13-SD-LC4	X4.12 X-A	VT-1	1Q800-09-208	SAT	100% coverage, non-relevant indications noted.
LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X4.12	V1-1	1400-03-233		
1B13-SD-LC5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-209	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LD1 LIFTING ROD TO UPPER SUPPORT RING WELD N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-210	SAT	95% coverage, non-relevant indications noted.

ID of Component Examined	ASME Category				`
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-LD2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-211	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LD2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-212	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LD3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM	X-A X4.12	VT-1	1Q800-09-213	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-130 1B13-SD-LD3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM	X-A X4.12	VT-1	1Q800-09-214	SAT	80% coverage, non-relevant indications noted.
N/A N/A 305-006-130 1B13-SD-LD4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS	X-A X4.12	VT-1	1Q800-09-215	EVAL	100% coverage, relevant indications on both tack welds. Refer to CR 09-54923.
N/A N/A 305-006-130 1B13-SD-LD5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-216	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LG-0 LOWER GUIDE TO LOWER SUPPORT RING WELDS, 0 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-217	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LG-180 LOWER GUIDE TO LOWER SUPPORT RING WELDS, 180 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-218	EVAL	100% coverage, relevant indication from bent guide bracket. Refer to CR 09-54923.
1B13-SD-MC MANWAY COVER WELD, 270 DEG SIDE	X-A X4.12	VT-1	1Q800-09-219	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB1 TIE BAR 1 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-220	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB2 TIE BAR 2 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-222	SAT	100% coverage, non-relevant indications noted.

ID of Component Examined	ASME Category				
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1813-SD-TB3 TIE BAR 3 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-223	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB4 TIE BAR 4 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-224	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB5 TIE BAR 5 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-225	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB6 TIE BAR 6 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-226	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB7 TIE BAR 7 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-227	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB8 TIE BAR 8 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09 ⁻ 228	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB9 TIE BAR 9 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-229	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB10 TIE BAR 10 AND ITS BANK	X-A X4.12	VT-1	1Q800-09-230	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 1B13-SD-TB11 TIE BAR 11 AND ITS BANK	X-A X4.12	VT-1	1Q800-09-231	SAT	100% coverage, non-relevant indications noted.
ATTACHMENT WELDS N/A N/A 305-006-128 1B13-SD-TB12	X-A	VT-1	1Q800-09-232	SAT	100% coverage, non-relevant indications noted.
TIE BAR 12 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X4.12				
1B13-SD-TB13 TIE BAR 13 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-233	SAT	100% coverage, non-relevant indications noted.

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-SD-TB14 TIE BAR 14 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-234	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128 .					
1B13-SD-TB15 TIE BAR 15 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-235	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-TB16 TIE BAR 16 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-236	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-TB17 TIE BAR 17 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1.	1Q800-09-237	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-TB18 TIE BAR 18 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-238	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-TB19 TIE BAR 19 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-239	SAT	100% covérage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-TB20 TIE BAR 20 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-240	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					•
1B13-SD-TB21 TIE BAR 21 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-241	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					
1B13-SD-TB22 TIE BAR 22 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-242	SAT	100% coverage, non-relevant indications noted.
14/A 303-000-120					
1B13-SD-TB23 TIE BAR 23 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-243	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128	•				
1B13-SD-TB24 TIE BAR 24 AND ITS BANK ATTACHMENT WELDS	X-A X4.12	VT-1	1Q800-09-244	SAT	100% coverage, non-relevant indications noted.
N/A N/A 305-006-128					

	ponent Examined	ASME Category ASME	Exam			
•	ched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
	B25 SAND ITS BANK ENT WELDS	X-A X4.12	VT-1	1Q800-09-245	SAT	100% coverage, non-relevant indications noted.
N/A N/	A 305-006-128					
	B26 AND ITS BANK ENT WELDS	X-A X4.12	VT-1	1Q800-09-246	SAT	100% coverage, non-relevant indications noted.
N/A N/	A 305-006-128					·
	B27 AND ITS BANK ENT WELDS	X-A X4.12	VT-1	1Q800-09-247	SAT	100% coverage, non-relevant indications noted.
N/A N//	A 305-006-128					
1B13-SD-TE TIE BAR 28 ATTACHME	AND ITS BANK	X-A X4.12	VT-1	1Q800-09-248	SAT	100% coverage, non-relevant indications noted.
N/A N/A	A 305-006-128					
1B13-SD-TE TIE BAR 29 ATTACHME	AND ITS BANK	X-A X4.12	VT-1	1Q800-09-249	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
ATTACHME	AND ITS BANK NT WELDS	X-A X4.12	VT-1	1Q800-09-250	SAT	100% coverage, non-relevant indications noted.
N/A N/A	A 305-006-128					
1B13-SD-TE TIE BAR 31 ATTACHME	AND ITS BANK	X-A X4.12	VT-1	1Q800-09-251	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128				,	
1B13-SD-TE TIE BAR 32 ATTACHME	AND ITS BANK	X-A X4.12	VT-1	1Q800-09-252	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-128					
	PPORT RING ACCESSIBLE , INCL RING TO SKIRT	X-A X4.12	VT-1	1Q800-09-253	EVAL	100% coverage. CR 09-55345 generated for minor axial and circumferential indications.
1B13-SHSAI	M EAD STUD ASY MOD	X-A X6.14	VT-3	1Q800-09-067	EVAL	100% coverage, relevant indications and wear were noted and SHSAM #2 & 8 were modified via ECP 06-0021. Refer to CR 09-55364.
N/A N/A						OUL I. FOR ID OF OUTOT.
1B13-SRM-1 SRM INSTRI	6/21 UMENT DRY TUBE B	X-A X2.10	VT-3	1Q800-09-057	SAT	100% coverage, non-relevant indications noted.
N/A N/A	305-006-117					

Desc	ription of C	nt Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	SRM-40/45 NSTRUMEN	T DRY TUBE D	X-A X2.10	VT-3	1Q800-09-058	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	305-006-117					
HOLD	EILLANCE S ER/SPECIM	EN	X-A - X6.10	VT-3	1Q800-09-060	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	. 305-006-127					
SURV	SSH-2 EILLANCE S ER/SPECIMI		X-A X6.10	VT-3	1Q800-09-061	SAT	100% coverage, relevant indication on a bent bail handle was noted. Refer to CR 09-55513.
N/A	N/A	305-006-127					•
	SSH-3 EILLANCE S ER/SPECIMI		X-A X6.10	VT-3 .	1Q800-09-062	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	305-006-127					
SAMP	SSH-WA-1 LE HOLDER CHMENT	, WELDED	B-N-2 B13.20	VT-1	1Q800-09-063	SAT	85% coverage, non-relevant indications noted.
N/A	N/A	305-006-127					
SAMP	SSH-WA-2 LE HOLDER CHMENT	, WELDED	B-N-2 B13.20	VT-1	1Q800-09-064	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	305-006-127	•				
SAMPI	SSH-WA-3 LE HOLDER CHMENT	, WELDED	B-N-2 B13.20	VT-1	1Q800-09-065	SAT	100% coverage, non-relevant indications noted.
N/A	N/A	305-006-127		,	,		
SRV, II	F0041A-IS NTERNAL SI JPING NUME		B-M-2 B12.50	VT-3	1Q800-09-258	SAT	As-found exam of SRV that is being replaced in RFO12.
10"	N/A	305-605-101					
	F041A-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1Q800-09-257	SAT	Examined 12 studs upon removal of existing SRV, 10 were cut to facilitate removal.
10"	N/A	305-605-101					
1B21-0 RIGID		MPL 1B21G7033	F-A F1.G	VT-3	1042-09-044	SAT	None
26°	N/A	305-605-104					
	10074 ANICAL SNU ANDEM)	IBBER	F-A F3.SN	VT-3	VT-09-0778	SAT	None
12"	N/A	305-605-116					•

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ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B21-H0074-WA INTEGRAL ATTACHMENT MECHANICAL SNUBBER 12" N/A 305-605-116	D-Ac D1.20	VT-1	1042-09-038	SAT	None .
1B21-H101D(A) VARIABLE SPRING MPL 1B21G7056	F-A F1.SP	VT-3	1042-09-039	SAT	None
26" N/A 305-605-104					
1B21-H101D(B) VARIABLE SPRING MPL 1B21G7057	F-A F1.SP	VT-3	1042-09-040	SAT	None .
26" N/A 305-605-104					
1B21-H0423 MECHANICAL SNUBBER	F-A F3.SN	VT-3	VT-09-0781 ·	SAT	None ·
10" N/A 305-605-112					
1B21-S104D HYDRAULIC SNUBBER MPL 1B21G7083	F-A F1.SN	VT-3	VT-09-0624	SAT	None
26" N/A 305-605-104		*			
1B33-0109 12" PIPE TO ELBOW	R-A R3.ND	UT	0944-09-E046	GEO	Previously recorded geometry noted with essentially no changes.
12" .575" 305-602-103					
1B33-0109:0 ELBOW SEAM, DOWNSTREAM	R-A R3.LS	UT .	0944-09-E047	NRI	None
12" .575" 305-602-103					•
1B33-0109-U PIPE SEAM, UPSTREAM	R-A R3.LS	UT	0944-09-E048	NRI	None
12" .575" 305-602-103			•		
1B33-0110 12" ELBOW TO PIPE	R-A R3.ND	UT .	0944-09-E049	GEO	Previously recorded geometry noted with essentially no changes.
12° .575° 305-602-103					
1B33-0110-D PIPE SEAM, DOWNSTREAM	R-A R3.LS	υτ	0944-09-E050	NRI	None
12" .575" 305-602-103					
1B33-0110-U ELBOW SEAM, UPSTREAM	R-A R3.LS	UT	0944-09-E051	NRI	None
12" .575" 305-602-103					

ID of Component Examined	ASME Category		·		
Description of Component Size - Sched ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B33-F0067A-IS 24" GATE VALVE,INTERNAL SURFACE (GROUPING NO.VIII) N/A N/A 305-602-102	B-M-2 B12.50	VT-3	1Q800-09-254	SAT	Interior accessible by wedge pin replacement ECP 03-0011, corrective maintenance order 200005691.
1B33-H301A CONSTANT SUPPORT, PUMP, MP 1B33G7013A	F-A L F1.40	VT-3	1042-09-050	SAT	None
N/A N/A 305-602-102					
1B33-H303A CONSTANT SUPPORT, PUMP, MP 1B33G7015A	F-A L F1.40	VT-3	1042-09-051	SAT	None
N/A N/A 305-602-102					
1B33-H304A CONSTANT SUPPORT, PUMP, MP 1B33G7016A	F-A L F1.40	VT-3	1042-09-052	SAT	None .
N/A N/A 305-602-102					
1C41-0001 SWEEPOLET TO 12" PIPE.	R-A R2.ND	UT	0944-09-E038	NRI	No counterbore was observed.
12" 80 305-691-101			•		
1C41-0001 SWEEPOLET TO 12* PIPE.	R-A R2.ND	UT	0944-09-E037	NRI	No interfering conditions or indications observed.
12" 80 305-691-101					
1C41-H0056 RIGID STRUT	F-A F1.ST	VT-3	1042-09-045	SAT	None
1.5" N/A 305-691-101	·	·			
1C41-H0059 RIGID GUIDE	F-A F1.Gs	VT-3	1042-09-047	SAT	None
1.5" N/A 305-691-101					
1C41-H5004 RIGID SUPPORT	F-A F1.R	VT-3	1042-09-046	SAT	None
1.5" N/A 305-691-101					
1C41-H5005 MECHANICAL SNUBBER	F-A F1.SN	VT-3 .	VT-09-0783	SAT	None
1.5" N/A 305-691-101					
1E12-0029 18" PIPE TO 24" X 24" X 18" TEE	C-F-2 C5.51	UT	0944-09-E019	NRI	None
18° 40 305-641-101					

ID of	Compone	nt Examined	ASME Category				
Desc	ription of (Component - ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	-0108A LANGE TO F	NPE	C-F-2 C5.51	UT	0944-09-E006	NRI .	None
24"	40	305-641-101					
1E12- 18" PI	0131 IPE TO ELBO	DW .	C-F-2 C5.51	UT	0944-09-E020	GEO	Previously recorded geometry noted with essentially no changes.
18"	40	305-641-110					
		T NOZZLE HEAT 1A	C-F-2 C5.51	UT	0944-09-E023	NRI	None
20"	40	305-641-111					
1E12-0 20" X		ER TO 18" PIPE	C-F-2 C5.51	UT	0944-09-E026	NRI	Previously detected geometry noted at below recording levels.
18"	40	305-641-118					
		EXCHANGER ZLE	C-F-2 C5.51	UT	0944-09-E027	NRI	None .
20"	40	305-641-118					
1E12-0 12" Pli	0330 PE TO ELBO	W	C-F-2 C5.51	UT	0944-08-E001	NRI	None
12"	40	305-642-119					
1E12-0 12" PE PIPE T		N P113 PROCESS	C-F-2 C5.51	UT •	0944-09-E031	NRI	Previously recorded root geometry observed at below recordable levels.
12"	40	305-642-126		•			,
1E12-0 12" EL PIPE		B 2044 PROCESS	R-A R2.ND	UT	0944-09-E032	NRI	None
12"	80 .	305-642-126					
1E12-0 PIPE T	0455 TO 18" ELBO	. , W	C-F-2 C5.51	UT	0944-09-E025	NRI	None
18*	40	305-641-105					
1E12-0 12" VA	0580 LVE F053B	TO PIPE	C-F-2 C5.51	UT	0944-09-E041	NRI	None
12"	100	305-642-132					•
1E12-0 10" X 1		ETO 10" PIPE	C-F-2 C5.51	UT	0944-09-E036	NRI	Previously detected geometry noted at below recording levels.
10"	80	305-641-112					

Desc	cription of C	nt Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	-B001A-003 LL CYLINDER	#3 TO SHELL HEAD	C-A C1.20	UT	0944-09-E024	GEO	Examined 0° to 180°. Scan performed across weld crown. Previously recorded indications were observed
N/A	N/A	305-641-121					with essentially no changes.
1E12 SHEL N4	-B001A-004 .L HEAD TO I	NLET NOZZLE NK-	C-B C2.21	MT	0942-09A-008	ACC	None
20"	N/A	305-641-121					
	-8001A-004 .L HEAD TO I	NLET NOZZLE NK-	C-B C2.21	UT	0944-09-E028	NRI	None
20"	N/A	305-641-121					
	-B001A-004-II F NOZZLE NK	R K-N4 INNER RADIUS	C-B C2.22	UT	0944-09-E021	NRI	None .
20"	N/A	305-641-121					
	B001A-SB3-S , HEAT EXCI	SP HANGER SUPPORT	F-A F1.40	VT-3	1042-09-014	SAT	None
N/A	N/A	305-641-121					
	-B001A-SB4-S), HEAT EXC	SP HANGER SUPPORT	F-A F1.40	VT-3	1042-09-015	SAT	None .
N/A	N/A	305-641-121					
HEAT	B001D-SB3-V EXCHANGE		C-Cc C3.10	MT .	0942-09A-007	ACC	None
N/A	N/A	305-643-123					,
	C002A-004 FLANGE TO	HEAD SHELL	C-G C6.10	MT	0942-09A-004	ACC	None
N/A	N/A	305-641-120					
18" DI	C002A-005 SCHARGE FI HARGE PIPE	LANGE TO 18"	C-G C6.10	MT	0942-09A-005	ACC	None
N/A	N/A	305-641-120					
	C002A-010 SHELL LON	GITUDINAL SEAM	C-G C6.10	MT	0942-09A-006	ACC	None
N/A	N/A	305-641-120					
20" G/	F0010-IS ATE VALVE, I ACE (GROUF		B-M-2 B12.50	VT-3	1042-09-074	SAT	None
20"	N/A	305-642-117				•	

Desc	ription of (nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
6" CH	-F0019-SEAM IECK VALVE DUPING NO. 1	BODY WELD	B-M-1 B12.40	UT	0944-09-E030	NRI	Single sided exam due to component configuration.
12" G	-F0042B-SEA ATE VALVE JUPING NO. 1	BODY WELD	B-M-1 B12.40	UT	0944-09-E033	NRI	100% Coverage, Valve Stem observed, similar to previous data.
	H0016 IANICAL SN	UBBER	F-A F1.SN	VT-3	VT-09-0779	SAT	None
12"	N/A	305-642-125					
	H0292 IANICAL SN	UBBER	F-A F2.SN	VT ·	VT-08-0008	SAT	None
24"	N/A	305-641-101					
	H0378 HANICAL SNI	UBBER	F-A F2.SN	VT-3	VT-08-0013	SAT	None
18"	N/A	305-642-102					
	H0390 ABLE SPRING	G (WA < .75" T)	F-A F2.SP	VT-3	1042-09-041	SAT	None
20"	N/A	305-642-101					
1E12-	H0499 ABLE SPRING	3	F-A F2.SP	VT-3	1042-08-006	SAT .	None
18"	N/A	305-641-106				•	
1E12-I RIGID	H0662 STRUT		F-A F2.ST	VT-3	1042-08A-002	SAT	None ·
N/A	N/A	305-641-108					
1E12-I MECH	H0681 IANICAL SNU	JBBER	F-A F2.SN	VT-3	VT-08-0009	SAT	None
N/A	N/A	305-641-103					
1E12-l	H0772 ANICAL SNU	JBBER	F-A F2.SN	VT-3	VT-09-0485	SAT	None
12"	N/A	305-642-126					
1E12-I RIGID	10786 STRUT		F-A F1.ST	VT-3	1042-09-065	SAT	None
12"	N/A	305-642-125					

ID of	Componer	t Examined	ASME Category				
Desc	ription of C		ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E21- 14" X PIPE		NG ELBOW TO 12"	C-F-2 C5.51	UΤ	0944-09-E022	NRI	Previously recorded geometry noted with essentially no changes.
12"	40	305-705-108					
1E21- 16" FL		S"X 14" REDUCER	C-F-2 C5.51	UT	0944-09-E018	NRI	Previously detected geometry noted at below recording levels.
16"	40	305-705-102					
24" St	C001-007 JCTION FLAI ION PIPE	NGE TO 24"	C-G C6.10	MT	0942-09A-001	ACC	None
24*	N/A	305-705-113					
	C001-008 JCTION PIPE	TO HEAD SHELL	C-G C6.10	MT	0942-09A-002	ACC	None
N/A	N/A	305-705-113					
	C001-010 SHELL LON	GITUDINAL SEAM	C-G C6.10	MT .	0942-09A-003	ACC	None
N/A	N/A	305-705-113					
	C001-17B PUMP, STUI) #17	C-D C4.30	UT	0944-09-E010	NRI	None
N/A	N/A	305-705-113					
	0001-17B PUMP, STUD) #17	C-D C4.30	UT	0944-09-E001	NRI •	None .
N/A	N/A	305-705-113				٠	
	001-18B PUMP, STUD	#18	C-D C4.30	UT	0944-09-E002	NRI	None
N/A	N/A	305-705-113					
	0001-18B PUMP, STUD) #18	C-D C4.30	UT	0944-09-E011	NRI	None
N/A	N/A	305-705-113					·
	001-19B PUMP, STUD	#19	C-D C4.30	UT	0944-09-E012	NRI	None
N/A	N/A	305-705-113					
	001-19B PUMP, STUD	#19	C-D C4.30	UΤ	0944-09-E003	NRI	None
N/A	N/A	305-705-113					

ID of Component Description of Co Size - Sched	mponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E21-C001-20B LPCS PUMP, STUD	#20	C-D C4.30	UT	0944-09-E004	NRI	None
N/A N/A	305-705-113					
1E21-C001-20B LPCS PUMP, STUD	#20	C-D C4.30	UT	0944-09-E013	NRI	None
N/A N/A	305-705-113					•
1E21-C001-21B LPCS PUMP, STUD	#21	C-D C4.30	UT	0944-09-E005	NRI	None
N/A N/A	305-705-113					
1E21-C001-21B LPCS PUMP, STUD :	#21	C-D C4.30	UT	0944-09-E014	NRI	None .
N/A N/A	305-705-113			•		
1E21-C001-22B LPCS PUMP, STUD#	#22	C-D C4.30	UT	0944-09-E015	NRI	None
N/A N/A	305-705-113					
1E21-C001-22B LPCS PUMP, STUD #	#22	C-D C4.30	UT	0944-09-E007	NRI	None
N/A N/A	305-705-113					
1E21-C001-23B LPCS PUMP, STUD #	‡23 •	C-D C4.30	UT .	0944-09-E008	NRI	None •
N/A N/A	305-705-113					• .
1E21-C001-23B LPCS PUMP, STUD #	† 23	C-D C4.30	UΤ	0944-09-E016	NRI	None
N/A N/A	305-705-113					
1E21-C001-24B LPCS PUMP, STUD#	124	C-D C4.30	UT	0944-09-E017	NRI	None
N/A N/A	305-705-113		•			
1E21-C001-24B LPCS PUMP, STUD #	124 ·	C-D C4.30	UT	0944-09-E009	NRI	None
N/A N/A 3	305-705-113		•			
1E21-F0005-SEAM 12" GATE VALVE BO (GROUPING NO. XVI) 12" N/A		B-M-1 B12.40	UT	0944-09-E029	NRI	100% Coverage, observed valve stem non-relevant indication similar to previous data.

ID of Component Exam	ent ASME	Exam					
Size - Sched ISI D	wg. No. Item No.	Method	Exam Report No.	Status	Remarks		
1E21-H0005 RIGID STRUT	F-A F1.ST	VT-3	1042-09-037	SAT	None		
12" N/A 305-7	05-111						
1E21-H0023 ANCHOR (WA)	F-A F2.A	VT-3	1042-09-013	SAT	None	-	
16" N/A 305-7	05-103						
1E21-H0026 MECHANICAL SNUBBER	F-A (WA <.75" T) F2.SN	VT-3	VT-08-0011	SAT	None		
24" N/A 305-7	05-101						
1E21-H0062 MECHANICAL SNUBBER	F-A F1.SN	VT-3	VT-08-0012	SAT	None		
12" N/A 305-7	05-108						
1E21-H0080 RIGID STRUT (WA <.75 T)	F-A F2.ST	VT-3	1042-08-003	SAT	None		
24" N/A 305-70	05-101						
1E21-H0089 VARIABLE SPRING	F-A F1.SP	VT-3	1042-08-004	SAT	None		
12" N/A 305-70	05-108		•				
1G33-0101 4" PIPE TO BENT PIPE	R-A R3.ND	UΤ	0944-09-E045	NRI	None		•
4" 80 305-6	71-107					•	
1G33-H0206 VARIABLE SPRING	F-A F1.SP	VT-3	1042-09-063	SAT	None		
4" N/A 305-67	71-107						
1G33-H0211 RIGID STRUT	F-A F1.ST	VT-3	1042-09-064	SAT	None		
3° N/A 305-67	1-102						
1G41-B001A-SP ANCHOR, HEAT EXCHANG	F-A SER (WA) F1.40	VT-3	1042-09-027	SAT	None		
N/A N/A 305-65	4-108						
1G41-B001A-WA INTEGRAL ATTACHMENT EXCHANGER ANCHOR N/A N/A 305-65	D-Ac HEAT D1.10	VT-1	1042-09-028	SAT	None		

		nt Examined	ASME Category				v	. •
		Component ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
	-H0005 ROD		F-A F3.R	VT	1042-08-009	SAT	None	
10"	N/A	305-655-117	,					
	-H0033) GUIDE		F-A F3.G	VT-3	1042-09-025	SAT	None	
6"	N/A	305-655-110						
	-H0113 STRUT		F-A F3.STm	VT-3	1042-08-007	SAT	None	
10"	N/A	305-655-109						
	H0163 STRUT		F-A F3.STm	VT-3	1042-08-010	SAT	None	
10"	N/A	305-655-111						
	H0223 GUIDE		F-A F3.G	VT-3	1042-08-011	SAT	None	
8"	N/A	305-651-101			•			
	H0266 STRUT		F-A F3.ST	VT-3	1042-08-012	SAT	None	
10"	N/A	305-655-113						
	H0282 STRUT		F-A F3.ST	VT-3	1042-09-026	SAT	None	
10"	N/A	305-651-103			,			
	H0291 GUIDE		F-A F3.G	VT-3	1042-08-013	SAT	None	
4"	N/A	305-654-105						
1G41- RIGID	H0373 STRUT		F-A F3.STm	VT-3	1042-08-014	SAT	None	
10"	N/A	305-655-115						•
1G41-	H0425 OR (WA)		F-A F3.A	VT-3	1042-09-030	SAT	None	
10"	N/A	305-654-102						
	H0425-WA RAL ATTACI	HMENT ANCHOR	D-Ac D1.20	VT-1	1042-09-029	SAT	None	
10"	N/A	305-654-102						`

Descr	iption of C	nt Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1G41-I MECH		JBBER (TANDEM)	F-A F3.SN	VT-3	VT-09-0590 & 96	SAT	None _
12"	N/A	305-654-101					
		HMENT RIGID	D-Ac D1.20	VT-3	1042-08-005	SAT	None .
10"	N/A	305-655-101			·		
1G42-H RIGID			F-A F3.ST	VT-3	1042-08-015	SAT	None
10"	N/A	305-655-101					•
		HMENT RIGID	C-Cc C3.20	VT-1	1042-09-048	SAT	None.
28"	N/A	305-605-110					
1N22-0 . 2" PIPE	062 @ : TO ELBOV	٧	X-B X10.11	VT-1	1042-09-042	SAT	None .
2ª	160	305-121-101					
1N22-0 2" PIPE	062 @ TO ELBOV		X-B X10.11	UT	0944-09-E034	NRI	None
2"	160	305-121-101					
1N22-0	063 @ DW TO PIPE	<u>:</u>	X-B X10.11	UT	0944-09-E035	NRI	None
· 2"	160	305-121-101					
1N22-00 2" ELBO	063 @ DW TO PIPE	Ē	X-B X10.11	VT-1	1042-09-043	SAT	None
2"	160	305-121-101					
1N27-00 20" X 20		TO 20" PIPE	C-F-2 C5.51	UT	0944-09-E039	NRI	None
20°	120	305-082-104					
1N27-00 20" X 20 REDUC)" X 14" TEE	E TO 14" X 12"	X-B X10.10	UT	0944-09-E040	NRI	Previously detected geometry noted at below recording levels.
14"	120	305-082-104					
1N27-P4 ANCHO		SHIELD BLDG (WA)	F-A F1.A	VT-3	1042-09-049	SAT	None
N/A		305-082-104					•
						*	

Desc	ription of (nt Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
P414		D FITTING TO TTACH WLD 305-082-104	B-Kc B10.20	MT	0942-09A-009	ACC	None .
P414 I		D FITTING TO TTACH WLD 305-082-104	X-E X10.20	UT	0944-09-E042	NRI	0° Exam, no relevant indications.
P414 I		D FITTING TO TTACH WLD 305-082-104	X-E X10.20	UT ·	0944-09-E043	NRI	Previous non-relevant Indications recorded at same sweep location and lower amplitude were observed at below the recording criteria and no longer recordable due to new wedge/angle used to perform the exam.
1P45-I RIGID	H0025 GUIDE		F-A F3.G	VT-3	1042-08-017	SAT	Notification 600507788 generated for the degraded coatings.
16"	N/A	305-792-106					·
1P45-I RIGID	H0115 GUIDE		F-A F3.G	VT-3	1042-09-012	SAT	Notification 600521767 written to addressed rusted U-Bolt on the guide.
16"	N/A	305-792-107					•
1P45-l RIGID	H0138 GUIDE		F-A F3.G	VT-3	1042-08-008	SAT	None
16"	N/A	305-792-103					
1P45-l ANCH	10159 OR (WA)		F-A F3.A	VT-3	1042-09-035	SAT	Notification 600522690 generated to clean and re-paint hanger and attachment.
24"	N/A	305-792-104	,	×	•		
	10159-WA RAL ATTAC	HMENT ANCHOR	D-Ac D1.20	VT-1	1042-09-036	SAT	Notification 600522690 generated to clean & re-paint hanger and attachment.
24"	N/A	305-792-104					
1P45-H RIGID	10357 STRUT (WA)	F-A F3.ST	VT-3	1042-09-031	EVAL	Notif 600521857 written for relevant operable indication due to strut having no free movement.
16"	N/A	305-792-103		•			
		HMENT RIGID	D-Ac D1.20	VT-1	1042-09-032	SAT	None
16"	N/A	305-792-103					
1P45-F RIGID			F-A F3.Gs	VT-3	1042-09-033	SAT	None .
8*	N/A	305-791-101					,

Description	nent Examined of Component ed ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1P45-H0622 RIGID STRUT		F-A F3.ST	VT-3	1042-09-034	SAT	None _
8" N/A	305-792-109				•	
1P47-H0291 RIGID STRUT		F-A F3.ST	VT-3	1042-08-016	SAT	None
6" N/A	305-002-111					
CLASS 1, PIPI PIPING-SYSTE	NG EM LEAKAGE TEST	B-P B15.50	VT-2.	1Q800-09-278	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					
CLASS 1, PUM PUMPS-SYST	IPS EM LEAKAGE TEST	B-P B15.60	VT-2	1Q800-09-279	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					
CLASS 1, VAL' VALVES-SYST	VES EM LEAKAGE TEST	B-P B15.70	VT-2	1Q800-09-280	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					
CLASS 1, PR C REACTOR VES LEAKAGE TES	SSEL-SYSTEM	B-P B15.10	VT-2	1Q800-09-281	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					
CLASS 2, PIPII SYSTEM PRES		C-H C7.30	VT-2	1Q800-09-282	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					•
CLASS 2, PRES		C-H C7.10	VT-2	1Q800-09-283	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					
CLASS 2, PUM SYSTEM PRES		C-H C7.50	VT-2	1Q800-09-284	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					. ·
CLASS 2, VALV SYSTEM PRES		C-H C7.70	VT-2	1Q800-09-285	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					
CLASS 3, PR C SYSTEM PRES		D-A D1.10	VT-2	1Q800-09-286	SAT	Pressure testing accomplished by various ISI Instructions.
N/A N/A	305-NO-DWG					

ID of Component Examined Description of Component		ASME Category	_				
•		omponent ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	, PR COM PRESSU		D-8 D2.10	VT-2	1Q800-09-287	SAT	Pressure testing accomplished by various ISI Instructions.
N/A i	N/A	305-NO-DWG					·
	, PR COM PRESSU		D-C D3.10	VT-2	1Q800-09-288	SAT	Pressure testing accomplished by various ISI Instructions.
N/A i	N/A	305-NO-DWG					
1T23-EXT EXTERIO		757 AZ 0-360	E-A E1.11	GVIS	1042-09-024	SAT	Minor surface rust.
. N/A . N	N/A	305-503-EXT					•
1T23-INTE		57 AZ 0-360	E-A E1.11	GVIS	1042-09-075	SAT	Ctmt Integrity OK; CRs 09-51721 & 51967 initiated due to degraded coatings.
N/A N	N/A	305-503-INT			·		
1T23-013- INT EXCE 690 / Z 0-4	PT ST & F	FILTER RM EL 642-	E-A E1.12	VT-3	1042-09-016	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
	N/A	305-503-113					
1T23-014- INT EXCE 690 AZ 90	PT FUEL	STOR PIT EL 642-	E-A E1.12	VT-3	1042-09-017	SAT.	No structural degredation; CR 09-51721 generated for coatings degredation.
N/A N	N/A	305-503-114					
1T23-015- INTERIOR		90 AZ 180-270 (6%)	E-A E1.12	VT-3	1042-09-018	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
N/A N	N/A	305-503-115	,				•
1T23-016- INT EXCE 690 AZ 27	PT STEAM	M TUNNEL EL 642-	E-A E1.12	VT-3	1042-09-019	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
	1/A	305-503-116					
1T23-017- INT REFU 727 AZ 0-9	EL FLOOF	R TO DOME EL 690-	E-A E1.12	VT-3	1042-09-020	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
	N/A	305-503-119					
1T23-018- INT REFU 727 AZ 90	IEL FLOOF	R TO DOME EL 690-	E-A E1.12	VT-3	1042-09-021	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
	1/A	305-503-120					
1T23-019- INT REFU 727 AZ 18	IEL FLOOF	R TO DOME EL 690-	E-A E1.12	VT-3	1042-09-022	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
	\/A	305-503-121					

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1T23-020-I INT REFUEL FLOOR TO DOME EL 690- 727 AZ 270-360 (4%) N/A N/A 305-503-122	E-A E1.12	VT-3	1042-09-023	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.

Table Notes:

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.
 The above exam listing is all the inservice examinations that were performed during Cycle 12 or RFO12 in accordance with Perry's Inservice Examination Plan (ISEP).



First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P0059-0012 Second Interval, Third Period, Second Outage (RFO12)

Cycle 12 and RFO12 Preservice Examinations

Prepared by: _	Ale	Date: _	7/8/09	
Reviewed by: _	Authorized Nuclear Inservice Inspector	Date: _	7/9/69	

ID of Component		ASME Category				
Description of Co Size - Sched	•	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-N8-B RPV HEAD SPRAY I FLANGE BOLTING N/A	NOZZLE N8 TO 305-006-103	B-G-2 B7.10	VT-1	1Q800-09-259	SAT	Examined 3 studs & 8 nuts which were replaced on this bolted connection, heat numbers D145 and TBX for studs and nuts, respectively.
1B21-F0041A-IS SRV, INTERNAL SUI (GROUPING NUMBE N/A		B-M-2 B12.50	VT-3 .	1042-09-011	SAT	Examination of replacement safety relief valve, Ser No. 160884.
1B21-F041A-B SRV BOLTING, 12 E.	ACH	B-G-2 B7.50	VT-1	1042-09-055	SAT	Examined 12 replacement studs, nuts and washers, heat number 590A.
N/A	305-605-101					
1B21-F041C-B SRV BOLTING, 12 E	ACH	B-G-2 B7.50	VT-1	1042-09-054	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A	305-605-103					
1B21-F041E-B SRV BOLTING, 12 E/	ACH	B-G-2 B7.50	VT-1	1042-09-056	SAT	Examined 12 replacement studs, nuts and washers, heat number OG84.
N/A	305-605-101					•
1B21-F041G-B SRV BOLTING, 12 EA	ACH	B-G-2 B7.50	VT-1	1042-09-058	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A	305-605-103					
1B21-F047C-B SRV BOLTING, 12 EA	ACH .	B-G-2 B7.50	VT-1	1042-09-057	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A	305-605-103	•		3		
1B21-F047G-B SRV BOLTING, 12 EA	ACH	B-G-2 B7.50	VT-1	1042-09-059	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A	305-605-103					•
1B21-F051A-B SRV BOLTING, 12 EA	ACH	B-G-2 B7.50	VT-1	1042-09-060	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A	305-605-101					
1B21-F051C-B SRV BOLTING, 12 EA	ACH .	B-G-2 B7.50	VT-1	1042-09-061	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A 3	305-605-103					
1B21-F051G-B SRV BOLTING, 12 EA	СН	B-G-2 B7.50	VT-1	1042-09-062	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
N/A 3	305-605-103					

ID of Component Examined Description of Component	ASME Category ASME	Exam			
Size - Sched ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B21-H0046 MECHANICAL SNUBBER	F-A F3.SN	VT-3	VT-09-0808	SAT	Pre-service exam of replacement snubber Ser No. 43347.
N/A 305-605-115					
1B21-H0446 HYDRAULIC SNUBBER (WA < .625" T) (TANDEM)	F-A F1.SN	VT-3	VT-09-0865	SAT	Pre-service exam of replacement snubber Ser No. 30800103/005.
N/A 305-605-106					
1B21-H0447 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	VT-09-0867	SAT	Pre-service exam of replacement snubber Ser No. 30800103/008.
N/A 305-605-106					
1B21-H0452 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	VT-09-0868	SAT	Pre-service exam of replacement snubber Ser No. 02615163/002.
N/A 305-605-106					
1B21-H0453 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	VT-09-0869	SAT	Pre-service exam of replacement snubber Ser No. 30800103/006.
N/A 305-605-106					•
1B21-H0462 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	VT-09-0870	SAT	Pre-service exam of replacement snubber Ser No. 30800103/002.
N/A 305-605-106					
1B21-H0472 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	VT-09-0871	SAT	Pre-service exam of replacement snubber Ser No. 30700524/016.
N/A 305-605-106					•
1B21-H0490 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	1Q800-09-261	SAT	Pre-service exam of replacement snubber Ser No. 30800103/007.
N/A 305-605-106					
1B21-H0491 HYDRAULIC SNUBBER	F-A F1.SN	VT-3	VT-09-0873	SAT	Pre-service exam of replacement snubber Ser No. 30800103/010.
N/A 305-605-106					
1B33-F067B-B 24* VALVE BOLTING	B-G-2 B7.70	VT-1	1Q800-09-256	SAT	Pre-service exam of bolting replaced during implementation of ECP 03-0011, order 200005691.
N/A 305-602-104				٠	
1B33-S371A HYDRAULIC SNUBBER, PUMP MOTOR, MPL 1B33G7066A N/A 305-602-102	F-A F1.40	VT-3	VT-09-0828	SAT	Pre-service exam of replacement snubber Ser No. 060.

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-S375A HYDRAULIC SNUBBER, PUMP (W MPL 1B33G7070A N/A 305-602-102	F-A (A) F1.40	VT-3	VT-09-0845	SAT	Pre-service exam of replacement snubber Ser No. 059.
1E12-H0118 ANCHOR (WA) N/A 305-642-119	F-A F2.A	VT-3	1042-09-066	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
1E12-H0293 HYDRAULIC SNUBBER (TANDEM N/A 305-641-101	F-A) F2.SN	VT-3	VT-09-0847	SAT	Pre-service exam of replacement Snubber per ECP-04-0270-01, order 200199137.
1E12-H0309 HYDRAULIC SNUBBER N/A 305-642-105	F-A F2.SN	VT-3	VT-09-0822	ŞAT	Pre-service exam of replacement Snubber per ECP-04-0270-01, order 200199137.
1E12-H0364 RIGID STRUT N/A 305-642-114	F-A F2.ST	VT-3	1042-09-069	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199137.
1E12-H0790 HYDRAULIC SNUBBER & RIGID STRUT N/A 305-641-105	F-A F2.SN	VT-3	1042-09-071	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
1E21-0044A 14" PIPE TO 14" X 10" REDUCING 40 305-705-105	C-F-2 TEE C5.51	UΤ	0944-09-E052	GEO	Geometric indication (root) recorded. Pre-service exam due to additional weld added to ISI population from ADHR mod, ECP 04-0270-01, order 200199135.
1E21-H0024 RIGID STRUT N/A 305-705-102	F-A F2.ST	VT-3	1042-08A-001	SAT	Pre-service exam in support of ECP 04-0279-01.
1E51-0001-B 6" FLANGE BOLTING N/A 305-631-108	B-G-2 B7.50	VT-1	1Q800-09-260	SAT	Pre-service exam of 1 replacement nut on this bolted connection, heat number TBX.
1E51-H0072 HYDRAULIC SNUBBER N/A 305-631-108	F-A F1.SN	VT-3 .	VT-09-0874	SAT	Pre-service exam of replacement snubber, Ser No. 30800103/009.
1N22-H0148 MECHANICAL SNUBBER N/A 305-121-101	F-A F1.SN	VT-3	VT-09-0815	SAT	Pre-service exam of replacement snubber Ser. No. 24405.

ID of Compone Description of Size - Sched.		ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1G40-H0008 RIGID STRUT (TA	ANDEM)	F-A F2.ST	VT-3	1Q800-09-255	SAT	Pre-service exam of new support installed under ECP 04-0270-01, order 200199135.
N/A	305-246-103					
1G40-H0024 RIGID STRUT		F-A F2.ST	VT-3	1042-09-072	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
N/A	305-246-101					
1G40-H0025 RIGID STRUT (TA	ANDEM)	F-A F2.ST	VT-3	1042-09-067	SAT	Observed out-of-spec pin-to-pin setting, initiated CR 09-56656. Reworked via ECP 04-0270-01 revision 20, order 200199137.
N/A	305-246-102					-Uluel 200 199 137 .
1G40-H0026 RIGID STRUT (T/	ANDEM)	F-A F2.ST	VT-3	1042-09-068	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199137.
N/A	305-705-103					
1G40-H0027 RIGID STRUT		F-A F2.ST	VT-3	1042-09-070	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
N/A	305-246-101					
1G40-H0028 RIGID STRUT (TA	ANDEM)	F-A F2.ST	VT-3	1042-09-073	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
N/A	305-641-106					• .

Table Notes:

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.
 The above exam listing is all the preservice exams that were performed during Cycle 12 or RFO12 due to repair/replacement

activities.

APPENDIX B

"CYCLE 12 & RF012 NIS-2/NR-1 FORMS"

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1

1813 - 053

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
As required by the Provisions of the ASME Code Section XI PNPP No. 9308 Rev. 9/11/00 NQI-1741							
1. Owner:	FIRS	TENERGY CORP.				Date 12/14/07	
		Road, Perry Ohio	44081		•	Sheet 1 of	
							•
2. Plant: _	Perry Nuc	lear Power Plant (I	PNPP)			Unit 1	· · · · · · · · · · · · · · · · · · ·
_	10 Center i	Road, Perry, Ohio	44081			200283212 (Repair Org. P.O. I	Vo., etc.)
3, Work Perfo		NERGY Nuclear Op			<u>.</u>	Type Code Sym	. —
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>	•	Authorization No	
						Expiration Date	9/26/06
4. Identification	on of System: <u>Rea</u>	ctor and Internals	1B13				
5. (a) Applicat	ole Construction Co	ode: ASME Sectio	n III Class	1 DNCLASS		,19 <u>74</u> Editi	on
winter	19 75				2. 1361-2.	1644-4, 1728	
(b) Constru	action Code used for	or repairs, modifica	ations, or r	eplacemen			*
(c) ASME	Tode Section XI ar	nolicable for Inserv	ica Inchac	tion:		ition Addenda	Code Case(s)
(O) ADIVIE	(c) ASME Code Section XI applicable for Inservice Inspection: 1989 none none Edition Addenda Code Case(s)						
		on XI Utilized for R	•	odification,	or Replac	ements:	
			e Case(s)				,
		IRSTENERGY CO				•	
	····	Repaired, Modified	·	T	·		ACME I
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Yéar Built	Repair, Replacement,	ASME Code
piping	General Electrics	1B13	No. 54077	N/A	1984	or Modification	Stamped 1985
system	General Electrici		84077	INA	1504	Replacement	1903
	<u> </u>						
				<u></u>	<u> </u>		
. Description of Work: Installed eight new capscrews and slotted washers at CRDM flange at location 42-31							
Heat numbe		D Proumo#		Iominal Oa	erating De	occure [] Oth	er- []
Pressure <u>N/</u>	cted: Hydrostatic	- ∐		•	_	essure- Dthe Case(s) <u>N/A</u>	1-1
riessuie <u>IV</u>	hai tes	n remperature <u>IV/</u>		egices r		Case(s) INIA	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks;
J. Acmarks.
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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, Michael J Tepsick, 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 08
Date 14 Dec. 20 07 Signed FENOC-PNPP [Jiml] QC Tech. (name of repair organization) (authorized representative) (title)
(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 ofOHIO
and employed by HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on 15-20, 20 07 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 ansing from or connected with this inspection.
Date 17/2c, 20 et Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

.

1B13-054

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI							
19	NPP No. 9308		dnited by the Provi	SIONS OF TH	E ASME CO	oe Section	ON AI	NQI-1741
1.	Owner: _	FIRST	ENERGY CORP.				Date <u>5/15/09</u>	
		10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	43
2.	Plant:		ear Power Plant (P				Unit 1	art
		10 0011101					(Repair Org. P.O. N	
3.	Work Perf	ormed By: FIRSTE					Type Code Symb	ool Stamp <u>NR</u>
		10 Ce	enter Road, Perry,	Ohio 4408	1		Authorization No.	
							Expiration Date 2	2/28/2011
4.	Identification	on of System: 1B13	Reactor and Inter	nals				
5.	(a) Applica	ble Construction Co	ode: <u>ASME SECTI</u> NAME/SECTI				19 <u>74</u> Editi	on
	WINTE	<u>ER</u> 19 <u>75</u> A	Addenda Code	Case(s) <u>N</u>	207, 1361-2	2 <u>, 1728, 1</u>	644-4, N272	
						 -		
	(b) Consti	ruction Code used for	or repairs, modifica	itions, or re	sblacement		tion M75	N/A Code Casa(s)
	(c) ASME	Code Section XI ap	plicable for Inservi	ce Inspeci	tion:	1989 Edi	NONE Addenda	N/A Code Case(s)
	(d) Applica	able Edition of Section	on XI Utilized for R	epairs, Mo	odification, o	or Replac	ements:	
	19 <u>89 , N/A</u> 19 <u>N/A</u> Addenda <u>N/A</u> Code Case(s)							
	(e) Design	Responsibilities <u>Fi</u>						•
6.	Identification	on of Components F	Repaired, Modified,	or Replac	ement Com	nponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat, Board No,	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	PIPING SYSTEM	GENERAL ELECTRIC	1813	64077	1B13D008	1984	REPLACEMENT	YES
		·						
-								
7.	Description	of Work: Replaced	20 control rod driv	es and 1"	cap screws	see atta	chment for details	
	·					······································	····	
8.	Test Condu	ucted: Hydrostatic	- 🗌 Pneumati	ic- 🔲 🗈 h	Nominal Ope	erating Pr	ressure- 🛭 Oth	er- 🗌
	Pressure 1	<u>1025</u> psi Ťes	st Temperature 12	23	legrees F	Code	Case(s) N/A	
								,

20F.43

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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, JOHN W. MESSENGER, 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 2011 Date 15 MAY 20 09 Signed FENOC-PNPP W. (authorized representative) (little)
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 ofOHIO
and employed by HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on MAY 27, 2004 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 5/27, 20 09 Signed Thomas Stand Commissions NB 9330 "N" "I" A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

NIS-2/NR-1 1B13-054

PAGE 3 OF <u>43</u>

1.	Owner:	FIRSTENERGY CORP			
	•	10 CENTER ROAD, PERRY, OH 44081			
2.	Plant:	Perry Nuclear Power Plant (PNPP)	Unit	one	
		10 Center Road. Perry, Ohio 44081		See below. Org. P.O. No., e	tc.)
3.	Work Pe	rformed By: <u>FIRSTENERGY NUCLEAR OPERATING COMPANY (PNPP)</u>	Type C	ode Symbol S	Stamp <u>NR</u>
		10 Center Road, Perry, Ohio 44081	Authoria	zation No	33
			Expirati	on Date <u>9/28</u>	/2011
4.	Identifica	tion of System: 1B13 REACTOR AND INTERNALS			
5.	(a) Applio	cable Construction Code: ASME SECTION III NB	19 <u>74</u>	Edition	
	WIN	TER 19 75 Addenda Code Case(s) N207, 1361-2, 1728, 16	44-4 <u>,N</u> 27	2	
	(b) Applic	able Edition of Section XI Utilized for Repairs or Replacements: 1989.		19 <u>NO_</u> A	ddenda
6.	Identifica	tion of Components Repaired, Modified, or Replacement Components			

WONUMBER	CORE	NEW CRDM S/N	NUMBER OF	HT NUMBERS OF
	LOCATION		CAPSCREWS	NEW CAPSCREWS
			REPLACED	
200316015	. 26-47	A2257	8	255A
200316011	10-23	A3997	8	255A
200316023	30-27	A4006	8	255A .
200316022	22-31	A4115	8	255A
200316018	30-35	A4216	8	255A
200316014	06-47	A4250	8	255A
200285923	42-31	A4483	8	255A
200316016	50-47	A4537	8	255A
200316004	10-47	A4582	8	255A ·
200316010	14-27	A4647	8	255A
200316024	30-23	A4676	8	255A
200319782	34-55	A5237	- 8	255A
200319801 .	26-31	A5385	8	255A
200316008	10-39	A5414 .	88	255A
200352463	10-11	A.5468	8	255A
200316017	14-35	A.5572	8	255A
200316019	18-31	A.5583	8	255A
200316026	42-07	A5695	8	255A
200316025	46-11	A5703	8	255A
200319788	18-35	A5720	8	255A

Sheet 1 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES 46543

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

سيسوب وشا المعاهدية والمعاري أنخبه ووالما المراوية المناز والمارا والمناز والم

As required by the Provision of the ASME Code Rules, Section III. Div. 1 [YIET] [7240]
1. (x) 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
(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. 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 corforms 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 apputetinance, is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is nuclided in the component Design Specification and Stress Report.)
Certificate of Authorization Expires September 15, F981 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, 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 Scate 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 8/26/ 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 not his employer makes any watrancy, 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 existing from or connected with this inspection.
Date 8/26/ 19 81 N.C. 723, PA.WC1766, OHIO
Mapector's Signature Commissions National Board, State, Province and No.

^{*}Supplemental shoets in form of lists, aketches or drawings may be used provided (1) size is 8M" x 1)", (2) information in items 1-2 on this has form to included on each sheet, and in each sheet is numbered and number of sheets it recursed in Hemma. "Remarks".

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FO	OR NUCLEAR PART AND APPURTENA	UNCES*
	ode Rules, Section III, Div. 1	
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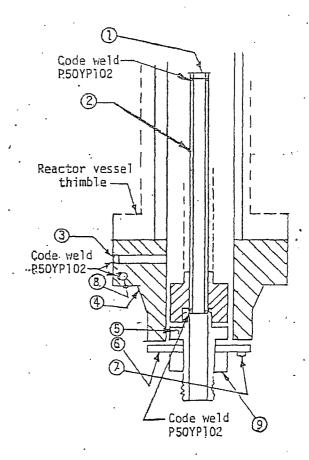
50F43

. (Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
• (. (Name and address of NPT Certificate Holder)
(Manufactured for General Electric Company, San Jose, California (NEBG)
•	(Name and address of N Certificate Holder for completed nuclear component)
_ 1	ntification-Certificate Holder's Serial No. of PartA2257Ner'l Bd. No
. (Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(Description of Pert Inspected Control Rod Drive, Model #7RDE144DG001
	Applicable ASME Coder Section III, Edition 1974. Addenda derc W 75 Case No. 1361-2 Class 1

- 1. Cap 16689274P1
 (167A2343)
 SA182 F316
 3/8 thick x 1 1/16 00
- Indicator_Pipe 166B9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065_max, dia.
- 3. Plug 159AT176P1 SA182-F304 1/4 thick x 0.812 OD
- Flange 919D610P1 (719E474) SA182-F304
 3.37 thick x 9 5/8 0D neck 1 1716 thick x 5.0 0D 2.875 TD
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID

...

- 6. Ring FTange 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. 00219

Sheet 1 of 2 60F43

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 A3997Nar'l Bd. No
(2) 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. 1361-2 Class 1
3. Remarks: Standard part for use With Reactor. Hydrostatically tested at 1820 psi. (Brisi 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 corforms 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 nincluded in the component Design Specification and Stress Report.) Date 8/26/ 19 81 Signed GE, NEPD-WMD (NPT Certificate of Authorization Expires September 15, 7981 Certificate of Authorization No.
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 Scress 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
L, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of 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 8/26/ 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Hoider has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the inspector nor his employer makes my vertearty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any menner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 8/26/ 19 81 N.C. 723, PA.WC1766, OHIO.
Commissions National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8%" z 11", (2) information in items 1-2 on this Data According to telephone and number of speeds to recorded in ltm 3. "Remarker"

Sheef 2 of 2

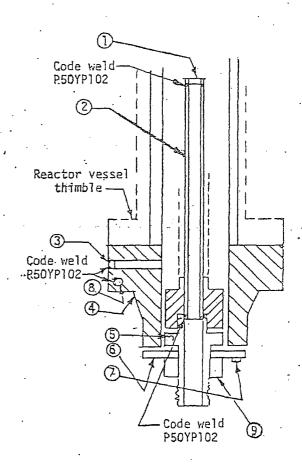
90F43

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.	(E)	Manufactured by	General Electric Company, Castle Hayne Rd., Wilmington, N.C	
			(Name and address of NPT Cerdificate Holder)	•
	(b)	Meaufactured for	General Electric Company, San Jose, California (NEBG)	
			(Name and address of N Certificate Holder for completed nuclear component)	•
2.	ldes	ntification-Certificat	Holder's Seriel No. of Part A3997 Nar'l Bd. No.	
			•	
	(E)	Constructed Acco	ding to Drawing No. 768E534G001 Drawing Prepared by D. L. Peters	on
	` '			
	(b)	Description of Pa	Control Rod Drive, Model #7RDB144DG001	
		•	N207	
	(c)	Applicable ASME	N207 ode: Section III, Edition 1974., Addenda date W'75 Case No. 1361-2 Cla	255

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x I 1/16 OD
- 2. Indicator Pipe 166E9313P1
 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 0D
- 4. Flange 919D610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 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 0D 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

00039

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

8 OF 43

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

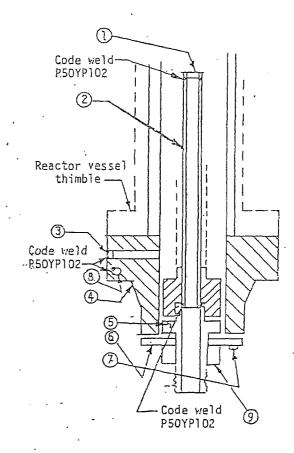
L. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and Address of NFT Certificate Holder)
(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(Name and address of N Certificate Holder for completed nuclear composess)
2. identification-Certificate Holder's Serial No. of Part A4006 Nar'l Bd. No.
(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(b) Description of Part lespected Control Rod Drive, Model #7RDB144DG001
N20/ (c) Applicable ASME Code: Section III, Edition 1974, Addenda dece W'75, Case No. Class
3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1320 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.)
One 7/20 81 Signed GZ, NEPD-WMD-QA By Struckumui
Certificate of Authorization Expires September 15, 1981 Certificate of Juthorization No. NPT N-1151
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
GZ, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C. Design information on file at 22A5556, Rev. &
Scress malysis report on file at GE. NEPD-WMD-OA. Castle Havne Rd., Wilmington, N.C.
Design specifications certified by B. N. Sridher Prof. Eng. Scare Calif Reg. No. 18345
Screas analysis report certified by 3. N. Sridhar Prof. Eng. Scare 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 of 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 1981, and state that to the best of my knowledge and bedief, 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 my 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 7/20 19 81 N.C. 723, PA.WC1766, OHIO
The spector's Signature Commissions National Board, State, Province and No.

90×43 71

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)	Ī
2.	identification-Certific	ate Holder's Serial No. of PartA4006Nat'l Bd. No	
			_
	(a) Constructed Acc	cording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson	
	• •		_
	(b) Description of F	an Inspected Control Rod Drive, Model #7RDB144DG001	
	•	N207	_
	(c) Applicable ASMI	Code: Section III Edition 1974 Addenda date W'75 Case No. 1361-2 Class 1	

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D
- Indicator Pipe 166B9313P1 SA312-TP316
 3/4 sch 40-seamless pipe
 0.113 wall thickness
 1.065 max. dia.
- 3. Plug 159A1176P1SA182-F3041/4 thick x 0.812 OD
- Flange 919D610P1 (719E474) SA182-F304
 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 I" thick x 5.0 OD x 1.75 ID
- Cap Screw 117C4516P2 SA193-86
 ea. 1/2 dia. on 4 1/8 bolt circle
- 8. Plug 175A7961P1SA182-F3040.38 thick x 1.307 dia.



CONTROL ROD DRIVE DWG - 768E534

9. Nut 137C5934P1 XM-19 SA479 1.30 thick x 2.62 dia 30535

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

DOF43

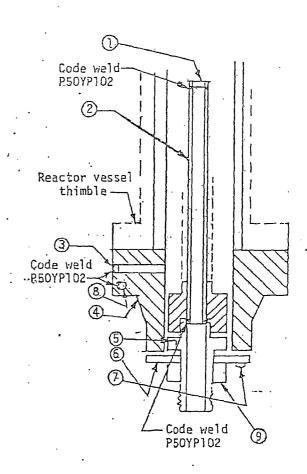
L (a) Manufactured by General Electric Company, Castle Hay	vue Rd., Wilmington, N.C.
(Name and address of NPT	Certificate Holderi
(b) Manufactured for General Electric Company, San Jose,	California (NESG)
(Name and editres of N Certificate Holds	
2. Identification-Certificate Holder's Serial No. of Part	Ner'l Bd. No.
(a) Consumered According to Drawing No. 768E534G001 Drawing P	Prepared by D. L. Paterson
(b) Descripcion of Pan Inspected Control Rod Drive, Model #	F7RDB1 44DGÓÐ1
(b) Descripcion of Part Inspected	N207
(c) Applicable ASSE Code: Section III, Edition 1974, Addenda date	W-75 Case No. 1361-2 Class 1
3. Remade: Standard part for use with Reactor. Hydrost	tatically tested at 1820 psi.
* Total number of sheets - 2	ompanent was assisted)
We certify that the statements made in this report are correct and this vesses for the rules of construction of the ASME Code Section III. (The applicable Desira Specification and Stress Report are not the responsibility of code for appurtenances is responsible for furnishing a separate Design Specification in the component Design Specification and Stress Report.)	f the NPT Certificate Holder for parts. An NPT Certif-
Dec 2/24 19 83 Signed GE, NEPD-WMD (NPT Certificate Holder)	Arthur
Open 2/24 19 83 Signed (NPT Certificate Bulder)	By I . Commune
Certificate of Authorization Emires 5 mm 16, 1984 Certific	NPT N-1151
Contricute of Authorization Expires Julie 10, 1304 Contric	rate of Authorization No.
CERTIFICATION OF DESIGN FOR APPURTENA	
	,,
Design information on file at GENERAL ELECTRIC CO., SAN JOSE	, CALIFORNIA
22A5556, Rev. 2 GENERAL ELECTRIC CO. SAN JOSE	CALTERDALA
Scress englysis report on file at GENERAL ELECTRIC CO., SAN JOSE 2244912 Pay 2	CALITORITA
the state of the s	
Design specifications certified by B. N. Sridhar	Prof. Frig. State Galain Reg. No. 19343
Stress analysis report certified by B. N. Sridhar	Prof. Eug. Scare Calif Reg. No. 18345
CERTIFICATE OF SHOP INSPE	CCTION
I, the undersigned, holding a valid commission issaled by the National Be and/or the State or Province of North Carolina and employed by De	
of State of North Carolina have inspected the	ned of a pressure ressel described in this
Pertial Data Report on 2/24 and bellef, the MPT Certificate Holder has constructed this part in accordance with By signing this certificate, neither the Inspector nor his employer make:	19 82nd state that to the best of my knowledge h the ASME Code Section III.
ing the part described in this Partial Data Report. Furthermore, shall be liable in any manner for any personal injury or property demage of the distinction.	neither the inspector par his employer
2/24 83	•
Date 19	N.C. 723,PA.WC1766, OHIO (2033
C. Sherell Commissions	11.01.120p.1
Inspector's Signature	National Board, State, Province and No.
"Supplemental aboves in form of flats, sketches or drawings may be used provided (1) size is \$15" x 1	11". (2) information in items 1-2 on this

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

2818. 110443

1.	(1) Menulectured by_	General Electric Company, Castle Hayne Rd., Wilmington, W.C.
	(b) Manufactured for	General Electric Company, San Jose, California (NEBG)
	(=, ===================================	(Name and address of N Certificate Holder for completed nuclear component)
2,	Identification-Certifica	tte Holder's Serial No. of Part
	(a) Constructed Acc	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of P	Control Rod Drive, Model #7RDB144DG001
		N207 Code: Section III, Edition 1974, Addenda date W' 75 Case No. 1361-2 Class 1

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 00
- Indicator Pipe | 166B9313P1 SA312-TP316
 3/4 sch 4D-seamless pipe 0.113 wall thickness
 1.065 max. dia.
- 3. Plug 159A1176P1
 SA182-F304
 1/4 thick x 0.812 OD
- 4. Flange 919D61OP1 (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 114B5122P2SA182-F3041" 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 12034 XM-19 SA479 1.30 thick x 2.62 die (757)

120F43.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES² As required by the Provision of the ASME Code Rules, Section III, Div. 1

п	
	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and redered of NFT Certificate Holder)
	(b) Magnifectured for General Electric Company, San Jose, California (NEBG)
	(Shame and address of N Certificate Holder for completed nuclear components
2.	A4216 Nat'l Bil No.
	(z) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peturson
	(b) Description of Par Legected Control Rod Drive, Model #7RDB144DG001
	(c) Applicable ASME Code: Section III, Edition 1974, Addende dece W 75, Case No. 1361-2 Class 1
_	Remarks Standard part for use with Reactor, Hydrostatically tested at 1820 psi.
5. .	(Brief description of service for which compensed was designed)
	* Total number of sheets - Z
(Th	We certify that the statements made in this report are correct and this vessel part or appurtunance as defined in the Code common 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 parts. An NPT Certificate Holder for parts are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for parts are not the responsible for intrinsing, a separate Design Specification and Stress Report.
De	6/23 19: 81 Signed: GE, NEPD-WMD-By (Standamen)
Ca	rdificate of Authorization Expires: September 15, 1981 Certificate of Authorization No. NPT N-1151
,	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	Design information on file or GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C.
	Stress analysis report on file ar GE, NEPD, San Jose, Calif. 22A4912, Rev. 2
	Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
	Sures analysis report certified by B. N. Sridhar Prof. Eng. Scate Calif Reg. No. 18345
	CERTIFICATE OF SHOP INSPECTION
	I, the undersigned, holding a valid commission issued by the Nacional 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 6/23 181, and state that to the best of my knowledge and bellef, 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 demage or a loss of any kind arising from or connected with this inspection.
	Date6/23 81
	W.J. Stelman Commissions N.C. 687, PA.WC271I
	Mational Board, State, Province and No.

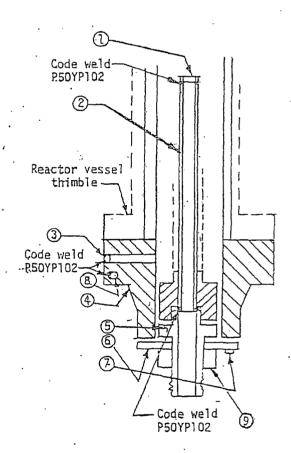
Supplemental shapes in form of lists, aketches or drawings may be used provided (1) aire in EM" x 11", (2) information in Items 1-2 on this

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

130043

L.	(a)	Manufactured by	General Fle	ectric Company	, Castle Ha	yne Rd., Wilmi	ngton, N.C.	
				(N2	me and address of NF	T Certificate Holder)		
	(b)	Menufactured for_	General Ele	ectric Company	, San Jose,	California (1	REBG)	
				(Name and address	of N Certificate Hole	ter for completed nuclear	composed O	
,	Ide	sdficatioa-Certificat	e Holder's Serial)	No. of Part	A4216	Nar'l Bd. No.		
	(2)	Constructed Accor	rding to Drawing	Na768E534G	001_Drawing.	Prepared by D.	L. Peterson	
			_	•	-	•		
	(b)	Description of Per	t Inspected	Control R	od Drive, M	odel #7RDB144D	G001 .	
				٠ <u>.</u>	•		N207	
	(c)	Applicable ASME (Code: Section III, 1	Edition 1974.	Addends doce	W'75 Care 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
- 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 5 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.

Sheet 1 of 2 14054377

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

Manufectured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.	
(Numer and address of NPT Certificate Holder)	
Manufactured for General Electric Company, San Jose, California (NEBG)	
(Name and address of H Certificate Holder for completed nuclear composent)	
estification-Certificate Holder's Serial No. of PartA4250Nar'l Bd. No	
768E534G001 D. L. Peterson	
Coastnucted According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson	
Description of Part Inspected Control Rod Drive, Model #7RDB144DG001	
	·
) Applicable ASME Code: Section III, Edition 1974, Addenda date W ¹ 75, Case No. 1361-2 I	<u> </u>
Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Brief description of service for which component was designed)	
Conse mace there of satisfact and appearing and designed.	
* Total number of sheets - 2	
certify that the stratements made in this report are correct and this vessel part or appurtenance as defined in the C	ode con-
to the rules of construction of the ASME Code Section III.	
applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NP Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenan	
ed in the component Design Specification and Stress Report.)	
1 2 t 1 :	
7/23 19 81 Signed GE, NEPD-WMD-QA By Stoudenmui	
(NOT Certificate Holder)	
icase of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151	
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C.	
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2	•
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 cas analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.	•
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A5556, Rev. 2 CASTLE Hayne Rd., Wilmington, N.C. CASTLE Hayne Rd., Wilmington, N.C. 2A4912, Rev. 2	
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GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 225556, Rev. 2 225 sanalysis report on file at GZ, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 224912, Rev. 2 33556 specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183	
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GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 CASTS analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 244912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION CERTIFICATE OF SHOP INSPECTION	845
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 Castle Hayne Rd., Wilmington, N.C. 24912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspect	845
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 Castle Hayne Rd., Wilmington, N.C. 24912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspective the State or Province of North Carolina and employed by Department of Labor	345
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A5556, Rev. 2 Examplysis report on file at GZ, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A4912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 Examplysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspective the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the pan of a pressure vessel described in	chis
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 Cast analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 244912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspective the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in 1/23 1981, and state that to the best of my knowled.	chis
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A5556, Rev. 2 Examplysis report on file at GZ, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A4912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 Examplysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspective the State of Province of North Carolina and employed by Department of Labor State of North Carolina have inspected the pan of a pressure vessel described in the Inspection to the North Carolina to the North Carolina with the ASME Code Section III. By signing this certificate, seither the Inspector and his employer makes my warrancy, expressed or implied, concerning this certificate, seither the Inspector and his employer makes my warrancy, expressed or implied, concerning this certificate, seither the Inspector and his employer makes my warrancy, expressed or implied, concerning the content of the North Carolina is employer makes my warrancy, expressed or implied, concerning this certificate, seither the Inspector are his employer makes my warrancy, expressed or implied, concerning the content of the c	chis
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 245556, Rev. 2 25 cas analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 244912, Rev. 2 26 sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 27 castle Hayne Rd., Wilmington, N.C. 28 castle Hayne Rd., Wilmington, N.C. 28 cast analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 29 cast analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspection the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in this Data Report on 1981, and state that to the best of my knowled by signing this certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, acither the Inspector nor his employer makes my warrancy, expressed or implied, cook the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer.	chis edge
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A5556, Rev. 2 Examplysis report on file at GZ, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A4912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 Examplysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspective the State of Province of North Carolina and employed by Department of Labor State of North Carolina have inspected the pan of a pressure vessel described in the Inspection to the North Carolina to the North Carolina with the ASME Code Section III. By signing this certificate, seither the Inspector and his employer makes my warrancy, expressed or implied, concerning this certificate, seither the Inspector and his employer makes my warrancy, expressed or implied, concerning this certificate, seither the Inspector and his employer makes my warrancy, expressed or implied, concerning the content of the North Carolina is employer makes my warrancy, expressed or implied, concerning this certificate, seither the Inspector are his employer makes my warrancy, expressed or implied, concerning the content of the c	chis edge
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GE, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C. 2A5556, Rev. 2 Example information on file at GE. NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A4912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspective the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in that Data Report on 7/23 1981, and state that to the best of my knowled the Delict. The NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, delicher the Inspector nor his employer makes my warrancy, expressed or implied, concept the liable in any manner for any personal injury or property damage or a loss of any kind arising from or comme the dris inspection.	chis edge
GE, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C. 245556, Rev. 2 225556, Rev. 2 225 analysis report on file at GZ, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 244912, Rev. 2 225 sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 225 analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the Nacional Board of Boiler and Pressure Vessel Inspective the State of Province of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in the Delter, the NPT Cartificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes my waterancy, expressed or implied, concerned the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer halfs in any manner for any personal injury or property damage or a loss of any kind arising from or connect the inspection.	chis edge
GE, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C. 2A5556, Rev. 2 Example information on file at GE. NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2A4912, Rev. 2 Sign specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspective the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in that Data Report on 7/23 1981, and state that to the best of my knowled the Delict. The NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, delicher the Inspector nor his employer makes my warrancy, expressed or implied, concept the liable in any manner for any personal injury or property damage or a loss of any kind arising from or comme the dris inspection.	chis edge

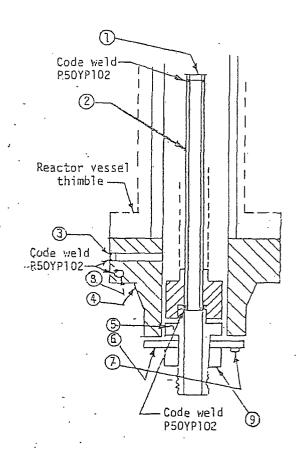
15 of 43

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. I

(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)
	•
identification-Certifical	e Holder's Serial No. of Part A4250 Nac'l Bd. No.
(a) Constructed Acco	rding to Drawing No. 768F534G001 Drawing Prepared by D. L. Peterson
	Control Red Drive Wedel #7DDD1//DCCC1
(b) Description of Pa	rt Inspected Control Rod Drive, Model #7RDB144DG001
	N207 Code: Section III, Ediction 1974, Addenda date W175, Case No. 1361-2 Class 1
((b) Manufactured for Identification-Certifical (a) Constructed Acco (b) Description of Pa

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD
- Indicator Pipe 166E9313P1 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
- Flange 919D610P1 (719E474) SA182-F304
 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 114B5122P2
 SA182-F304
 l" thick x 5.0 OD x 1.75 ID
- 7. Cap Screw 117C4516P2SA193-B66 ea. 1/2 dia. on 4 1/8 bolt circle
- 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 = 2.62 dia.

Sheet 1 of 2

160F437

FORM: N-2 MFT 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.
	(b) Manufactured for General Electric Company, San Jose, California (NEBG)
	(Noise and address of N Certificate Holder for completed nuclear component)
2	Identification-Cartificate Holder's Serial No. of Part A4483 Nar'l Bd. No.
	(n) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Descripcion of Part Inspected Control Rod Drive, Model #7RDB144DG001
	(c) Applicable ASSE Code: Section III, Edition 1974, Addenda date W'75, Case No. Class III.
	Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
3.	(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 comms 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 appurtenances is not hadden in the component Design Specification and Stress Report.)
ەر	Te 7/23 19 81 Signed GE, NEPD-WMD-QA By Stoudensnei
Ce	mificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 2245556, Rev. 2
	Scress manalysis report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. 22A4912. Rev. 2
	Design specifications certified by 3. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
	Stress analysis report certified by 3. 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
	of State of North Carollina 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 Cerdificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the inspector nor his employer makes my warrancy, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in my 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, PA.WC1766, OHIO
	Inoperior's Signature Commission's National Board, State, Province and No.
_	ליפתם

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

16977 170543

i. (a) Menufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.

(b) Manufactured for General Electric Company, San Jose, California (NEBG)

(Name and address of N Certificate Holder for completed nuclear component)

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

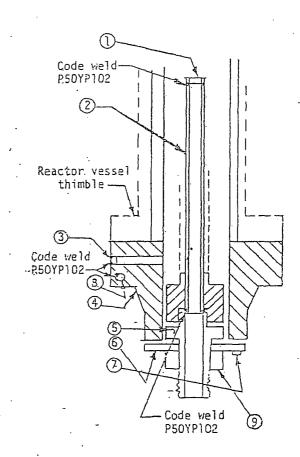
(b) Description of Part Inspected _____ Control Rod Drive, Model #7RDB144DG001

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

1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD

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

- Indicator Pipe 166B9313P1 SA312-TP316
 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.
- Plug 159A1176P1
 SA182-F304
 1/4 thick x 0.812 OD
- Flange 919D610P1 (719E474) SA182-F304
 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D
 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 0D 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 diz.

B13 MR 16582 Sheet 1 of 2

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

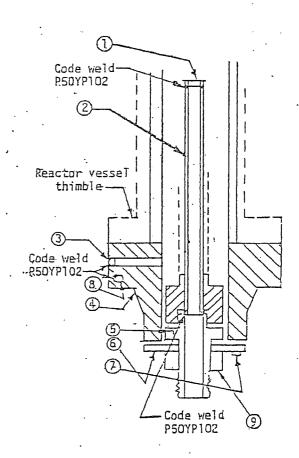
i	
,	General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(Name and seddress of NPT Certificate Holders
(泊	Messiesmed for General Electric Company, San Jose, California (NEBG)
	(Near and address of N Certificate Holder for completed nuclear components)
ي لط	A4537 Ner'l Bd. No.
(3 j	Commerced According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	Descripcion of Pare Inspected Control Rod Drive, Model #7RDB144DG001
(9)	Description of Part Inspected
(=)	Applicable ASME Code: Section III, Edition 1974, Addenda date W'75 Case No. 1361-2 I
B.o	Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
	(Brist description of service for which component was designed)
•	* Total number of sheets - 2
_	:
ine a ale: E	certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code contraction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal of construction of the ASAE Code Section III. Internal code construction of the ASAE Code Section III. Internal code construction of the ASAE Code Section III. Internal code construction of the ASAE Code Section III. Internal code construction of the ASAE Code Section III. Internal code code construction III. Internal code code code Section III. Internal code code code Section III. Internal code code code Code Code III. Internal code code Code Code III. Internal code code Code Code III. Internal code Code Code III.
	INPT Certificate Holders
تلنعت	June 16, 1981 Certificate of Authorization No. NPT N-1151
-	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	GZ, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
Sæ	
	ess scalysis report on file at GE. NEPD-WMD-OA, Castle Havne Rd., Wilmington, N.C.
ue	
	Prof. Eng. State Callf Reg. No. 18345
	ess malysis report on file at GE. NEPD-WMD-OA, Castle Havne Rd., Wilmington, N.C. 24912, Rev. 2
Serion se	CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors Wor the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in this that Data Report on 12/30 19 80 and state that to the best of my knowledge the left of the APT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
Series of	CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors Wor the State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in this mai Data Report on 12/30 19 80 and state that to the best of my knowledge
Series of	CERTIFICATE OF SHOP INSPECTION I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors Wor the State or Province of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in this that Data Report on 12/30 19 80 and state that to the best of my knowledge is the part of earthcare, neither the Inspector nor his employer makes my warranty, expressed or implied, concernently be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected in this inspection.
Series and of	CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors Wor the State or Province of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in this that Data Report on 12/30 19 80 and state that to the best of my knowledge is belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificane, neither the inspector nor his employer makes my warrancy, expressed or implied, concerns the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected in this inspection.

16582-16582-

FORM N-2 NFT 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	eneral Electric Company, Castle Havne Rd., Wilmington, N.C.	_
			INEEDS and address of NPT Certificate Holders	
	(5)	Hamiltonied for	eneral Electric Company, San Jose, California (NEBG)	
	` '	_	(Name and address of N Certificate Heider for completed muclear component)	_
		*	· · · · · · · · · · · · · · · · · · ·	
7.	Ides	mification-Certificat	Holder's Serial No. of Part A4537 Nar'l Bd. No.	
_				_
	(a)	Conscructed Acco	ing to Drawing No. 768F534G001 Drawing Prepared by D. L. Peterson	
	,			_
		•		
	(b)-	Description of Pa	Inspected Control Rod Drive, Model #7RDB144DG001	
	` -,		. N207	
_				
Ī	(c)	Applicable ASME	de Section II, Edition 1974, Addenda date W*75 Case No. 1361-2 Class 1	
	,			-

- F_ Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x I 1/16 OD
- 2. Indicator Pipe 166B9313PT SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.
- 3. Plug 159A1176P1 SA182-F304 I/4 thick x 0.812 0D
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 00 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 137C593471 XM-19 SA4791.30 thick x 2.52 die.

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

	11/12/17/17
1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington (Name and address of NPT Certificate Holder)	ı, N.C.
(b) Menufactured 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	
(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Pe	terson:
(b) Description of Part InspectedControl Rod Drive, Model #7RDB144DG001	
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W175, Case No. 1361	/ 2 Cless1
3. Remarks: Standard part for use with Reactor. Hydrostatically tested at (Brief description of service for which component was designed)	: 1820 psi.
* Total number of sheets - 2	÷
The certify that the statements made in this report are correct and this vessel part or appurtenance as a forms 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 case Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report included in the component Design Specification and Stress Report.)	for parts. An NPT Certif- if the appurtenance is not
Date 8/26/ 19.81 Signed GE, NEPD-WMD By Thrush (NPT Certificate Holder) Certificate of Authorization Expires September 15, F981 Certificate of Authorization No.	NPT N-115I
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	
Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.	
22A5556, Rev. 2 Stress analysis report on file at GE, NEPD, Sam Jose, Calif.	
22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. Scate Calif	Reg. No. 18345
Stress analysis report certified by B. N. Stidhar 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 Pressur and/or the State of Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vesser Partial Data Report on 8/26/ 1981, and state that to the 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 warrancy, expressed ing the part described in this Partial Data Report. Furthermore, neither the Inspector shall be liable in any manner for any personal injury or property damage or a loss of any kind arising with this inspection.	el described in this best of my knowledge or implied, concern- nor his employer
Date 8/26/ 19 81 N.C. 723, PA. W	0047.3

2/0543

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

L (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)

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

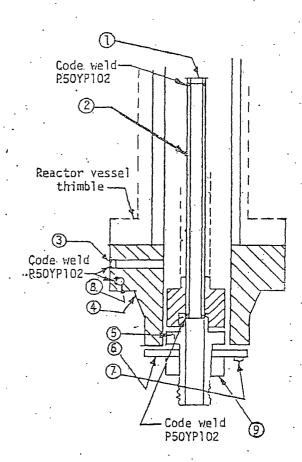
(b) Description of Pert Inspected Control Rod Drive, Model #7RDB144DG001

(c) Applicable ASME Code: Section III, Edition 1974. Addenda date W175 Case No. 1361-2 Class 1

1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD

. 2. identification-Certificate Holder's Serial No. of Part

- 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
- Flange 919D610P1 (719E474)
 SA182-F304
 3.37 thick x 9 5/8 0D
 neck 1 1/16 thick x 5.0 0D
 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 117C4516P2SA193-B65 ea. 1/2 dia. on 4 1/8 bolt circle
- 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.

Sheet 1 of 2 22 of 43.

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. I

_	
1.	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(Name and address of NPT Cerdificate Holder) (b) Manufactured for General Electric Company, San Jose, California (NEBG)
	(Name and address of N Certificate Holder for completed nuclear component)
z	Identification-Certificate Holder's Serial No. of Part
	(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of Part InspectedControl Rod Drive, Model #7RDB144DG001
	(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 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 comms 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 Certifice Holder for appurtenances is responsible for intrinsing a separate Design Specification and Stress Report if the appurtenance is not duded in the component Design Specification and Stress Report.)
⊋ר	7/23 19.81 Signed GE, NEPD-WMD-QA By Condensus
Ce	rificate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
-	GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C.
	22A5556, Rev.2
	Screix analysis report on file at GE. NEPD-WMD-OA. Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2
	Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No.18345
	Scress analysis report certified by B. N. Sridhar Prof. Eng. Scare 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
	end/or the State of 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 my varianty; expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in my manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	7/23 81
	N.C. 723, PAWC1766, OHIO
	Inspector's Signature . Commissions . National Board, State, Province and No.

implemental ansets in form of Cara, absection or tresungs may be haved provided (1) and is \$100 x (100, (7) information in stemm 1-2 on this back resent percentages are sent percentages as the percentage are not as the first percentage are sent percentages.

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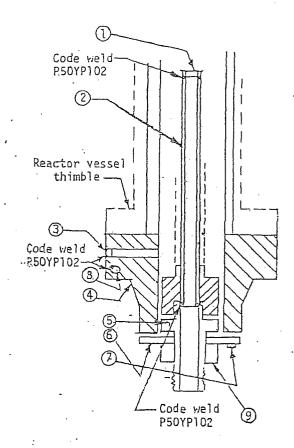
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. 1

ι.	(a) Manufactured by_	General Electric Company, Castle Havne 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)
<u>.</u>	Identification-Certifica	te Holder's Serial No. of Part A4647 Nat'l Bd. No.
	(2) Constructed Acco	rding to Drawing No. 7687534G001 Drawing Prepared by D. L. Peterson
	(b) Description of Pa	m Inspected Control Rod Drive, Model #7RDB144DG001
		N207
	(c) Applicable ASME	Code: Section III, Edition 1974, Addenda date W175., Case No. 1361-2 Class 1

1. Cap 16689274F1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD

The second

- Indicator Pipe 166E9313P1 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
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 l" thick x 5.0 OD x 1.75 ID
- 7. Cap Screw 117C4516P2SA193-866 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. 00715

Sheet 1 of 2 240543

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

	りたはしてもれる
1.	(a) Massiscrered by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(b) Manufactured for General Electric Company, San Jose, California (NEBG)
	(Hame and address of H Certificate Holder for completed nuclear composeem)
2	Identification-Certificate Holder's Serial No. of Part A4676 Nev'l Bd. No.
	(a) Consensed 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. 1361-2 1
,	. , Standard part for use with Reactor. Hydrostatically tested at 1820 pei.
3.	Remorks: Standard part for use with Reactor. Hydrostatically tested at 1820 poi. (Brid description of service for which component was designed).
	* Total number of sheets - 2
(TE	We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code company to the rules of construction of the ASE Code Section III. a 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 luded in the component Design Specification and Stress Report.) 7/23 19 81 Signed GE, NEPD-WMD-QA By
	Tificate of Authorization Expires September 15. 1981 Certificate of Authorization No. NPT N-1151
	tilicate of Authorization Expires 3000 tember 13. 1301 Certificate of Authorization No.
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
	22A5556, Rev. 2 Scress anlysis report on file of GE, NEPD-WMD-OA. Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2
	Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345
	Screas malyais 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 Vescel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor
	State of North Carolina have inspected the part of a pressure vessel described in this 7/23 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, meither the inspector nor his employer makes my varienty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in my menuer 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, PA.WC1766, OHIO Inspector's Signature Commissions National Board, State, Province and No. 00518

N207

250F43

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 A4676

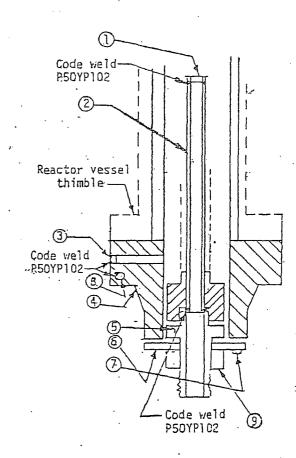
(a) Constructed According to Drawing No. 768E534GD01 Drawing Prepared by D. L. Peterson

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

1. Cap 166B9274F1 (167A2343) SA182 - F316 3/8 thick x 1 1/T6 OD

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W 75.

- Indicator Pipe 166B9313P1 SA312-7P316
 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 00
 neck 1 1/16 thick x 5.0 00
 2.875 ID
 - 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
 - 5. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 OD x 1.75 ID
 - 7. Cap Screw 117C4516P2SA193-B66 ea. 1/2 dia. on 4 1/8 bolt circle
 - Plug 175A7961P1
 SA182-F304
 0.38 thick x 1.307 dia.



CONTROL ROD DRIVE

9. Nut 137C5934P1 00519 XM-19 SA479 1.30 thick x 2.62 dia.

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

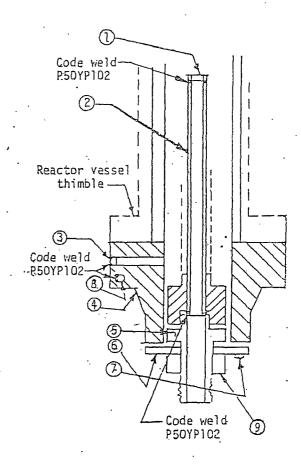
As required by the Provision of the ASME Code Rules, Section III, Div. 1
L. (c) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder)
(b) Manufactured for General Electric Company, San Jose, California (NEBG) (Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of PartA5237Nat'l Bd. No
(c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001 N207 N295 (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W 75, Case No. Class 1
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W ¹ 75, Case No. 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 dealgned)
* 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 no necluded in the component Design Specification and Stress Report.) According to the NPT Certificate Holder By Continuous
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Design information on file at GE, NEPD-WMD-OA, Castle Havne Rd., Wilmington, N.C. 22A5556, Rev. 2
Scress 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 of 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.
N.C. 723, PA. WC1/66, UHIU
Inapector's Signature National Board, State, Province and Na.

Sheet 2 of 2 176F43

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

	As required by the Provision of the Asiale Code Rules, Section III, Div. 1	<u> 40</u> .
1.	I. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder)	
	(b) Menufactured for General Electric Company, San Jose, California (NEBG)	
2.	(Name and address of N Certificate Holder for completed nuclear component) 2. Identification-Certificate Holder's Serial No. of Part	
	(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 W175, Case No. 1361-2 Class 1	

- 7. Cap 166B9274F1
 (167A2343)
 SA182 F316
 3/8 thick x 1 1/16 0D
- 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 919D61OP1 (719E474)
 .SA182-F304
 3.37 thick x 9 5/8 0D
 neck 1 1/16 thick x 5.0 0D
 2.875 ID
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring F7ange 11485122P2 SA182-F304 1" thick x 5.0 OD x 1.75 ID
- 7. Cap Screw 117C4516P2SA193-866 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 00729 1.30 thick x 2.62 dia.

Sheet 1 of 2 280F43

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

me 1240
.2. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of MPT Cerubcate 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 PartA5385Nar'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
(b) Description of Part Inspected N2U/N295 (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W 75, Case No. Class 1 (d) Applicable ASME Code: Section III, Edition 1974, Addenda date W 75, Case No. Class 1
3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Cariof 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 appurenance 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 no included in the component Design Specification and Stress Report.)
Date 8/31 19 81 Signed GE, NEPD-WMD By Street Holder) September 15 F081 NPT N-1151
Certificate of Authorization Expires September 15, F981 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.
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 3/31 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.
Dute 8/31 19 8! N.C. 723, PA.WC1766, OHIO Inspector's Signature Commissions National Board, State, Province and No. 0074

"Supplemented shared "in" form of lists, akatches or drawings may be used provided (1) size is \$\forall ' x 11", (2) information in items 1-2 on this
Don Report is included so each sheet, and till each sheet is numbered and number of sheet is recorded in item 3, "Remarks".

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 composent)

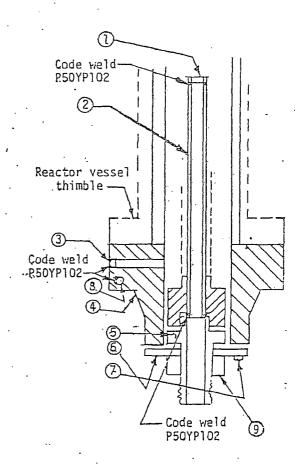
2. Identification-Certificate Holder's Serial No. of Part A5385

(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. Addends date W'75 Case No. 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
- Flange 919D610P1 (719E474)
 SA182-F304
 3.37 thick x 9 5/8 0D
 neck 1 1/16 thick x 5.0 0D
 2.875 ID
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 114B5122P2 SA182-F304 l" thick x 5.0 OD x 1.75 ID
- 7. Cap Screw 117C4516P2SA193-B66 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 00744 XM-19 SA479 1.30 thick x 2.62 dia.

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'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 NFT Cordicate Holders (b) Manufactured for General Electric Company, San Jose, California (NEBG)	
(b) Manufactured for (Manufacture of M Certificate Holder for completed nuclear components	
Z identification-Certificate Holder's Sectal No. of Part <u>A5414</u> Nat'l Bd. No.	
(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson	
(b) Description of Pert Inspected Control Rod Drive, Model #7RDB144DG001	
N207 1361-2 (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W ¹ 75, Case No. Class	
3. Remarks: Standard part for use with Reactor. Hydrostatically tasted at 1820 psi.	
(Erief description of service for which component was designed)	
* Total number of sheats - 2	_
·	
We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code or forms 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 included in the component Design Specification and Stress Report.)	tLF-
Desc 7/23 19 81 Signed GE, NEPD-WMD-QA By Structumus	
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 22A5556, Rev. 2	
Scress enalysis report on file at GE, NEPD-WMD-OA, Castle Havne Rd., Wilmington, N.C. 22A4912, Rev. 2	
Design specifications certified by 3. N. Sridhar Prof. Eng. Scate Calif Reg. No. 18345	. }
Scress analysis report certified by B. N. Sridhar Prof. Eng. Scare Calif Reg. No. 18345	
CERTIFICATE OF SHOP INSPECTION	1
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 for his employer makes my variancy, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in my manner for my personal injury or property demage or a loss of my kind arising from or connected with this inspection.	
7/23 81	
Dace 7/23 19 81 N.C. 723 PA.WC1766, OHIO Inapplifor's Signature Commissions National Board, State, Province and No.	! ! !

Supplemental sheets in form of lists, sketches or drivings may be used provided (1) size in 196" x 11", (2) information in items (-2 in this Distance) in account of the control of the co

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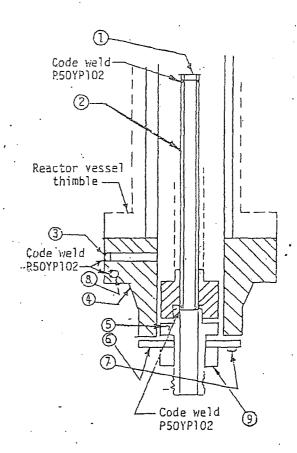
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FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

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 los	General Electric Company, San Jose, California (NEBG)
	, ,	(Name and address of N Cartificate Holder for completed nuclear component)
2.	Identification-Certifica	ite Holder's Serial No. of PartA5414Nac'l Bd. No
	(E) Constructed Acc	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of P	control Rod Drive, Model #7RDB144DG001
		N207 Code: Section III, Edition 1974, Addende date W175, Case No. 1361-2 Class 1
	(c) vobricable vowe	Code: Section III, Edition , Addende time , Case No. 2302 - Cless

- 7. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D
- 2. Indicator Pipe 1.56E9313P1 SA312~TP315 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 0D
- 4. Flange 919D61OP1 (719E474) .SA182-F304 3.37 thick x 9 5/8 00 neck 1 1/16 thick x 5.0 0D 2.875 ID
- 5. Base 137C5311P1 XH-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 114B5122P2 SA182-F304 1" thick x 5.0 00 x 1.75 ID
- 7. Cap Screw 117C4516P2 SA193-85 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.

As required by the Provision of the ASME Code Rules, Section III, Div. 1
Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NFT 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 A5468 Nar'l Bd. No.
(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(b) Description of Pen Inspected Control Rod Drive, Model #7RDB144DG001
(c) Applicable ASME Gode: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1
3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Belof description of service for which component was designed)
(metal 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 Desirn 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 8/29 19 81 Signed GE, NEPD-WMD (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, 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
of State 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 8/29 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 8/29 19 81 N.C. 723, PA.WC1766, PHIO 0083
Inspector's Signature National Board, State, Province and No.

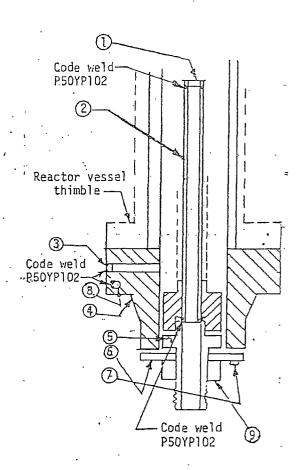
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TRM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* 330043

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

ı.	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(Name and address of NPT Certificate Hulder)
	(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 A5468
	(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 W175 Case No. 1361-2 Class 1

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD
- 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
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 l" thick x 5.0 OD x 1.75 ID
- 7. Cap Screw 117C4516P2SA193-B66 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.

Sheet 1 of 2 26977

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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(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. **Islane to address to Nort Continue Moder** (b) Manufactured for General Electric Company, San Jose, California (NEBG) Name and solders of Nort Continue Moder** (c) Manufactured-Certificate Holder's Serial No. of Part AS572 AS572 (a) Conservered According to Drawing No., 76825346001 (b) Description of Part Inspected Control Rod Drive, Model #7RDB144D6001 (c) Applicable ASME Code: Section III, Edition 1974 Addenda date W'75 Case No. Remarks: Standard part for use with Raactor. Hydrostatically tested at 1820 psi. (Brist description of service for which component was distincted. * 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 component was distincted. * Total number of sheets - 2 We certify that the statements made in this report are correct and this vessel part or appurtenance is reflected in the Code component was distincted and Streak Report are not be responsible for firmshing a separate Design Specification and Streak Report are not be responsible for firmshing a separate Design Specification and Streak Report are not be responsible for firmshing a separate Design Specification and Streak Report are not be responsible for firmshing a separate Design Specification and Streak Report. **Total number of Separate Design Specification and Streak Report are not be responsible for firmshing a separate Design Specification and Streak Report. **Total number of Separate Design Specification and Streak Report. **Total number of Separate Design Specification and Streak Report. **Total number of Report Separate Design Specification and Streak Report. **Total number of Separate Design Specification and Streak Report. **Total number of Separate Design Specification and Streak Report. **Total Design Indemnation on file at Canada Separate Design Specification on file at Canada Separate Design Specification on file at		
(b) Manufactured for General Electric Company, San Jose, California (NEBG) (Name and solders of Neurolaste Holder to commended underst component (a) Constructed According to Drawing No. 7682536G001 Drawing Prepared by D. L. Paterson (b) Description of Purt Inspected Control Rod Drive, Model #77DE144DG001 (c) Applicable ASME Code: Section III, Edition 1974, Addends date W'75, Case No. 1361-2 Class 1 (c) Applicable ASME Code: Section III, Edition 1974, Addends date W'75, Case No. 1361-2 Class 1 (b) The Associated Standard part for use With Reactor. Hydrostatically tasted at 1820 psi. (Brief description of services for which component was deviated at 1820 psi. (Brief description of services for which component was deviated at 1820 psi. (Brief description of services for which component was deviated at 1820 psi. (Brief description of services for which component was deviated at 1820 psi. (Brief description of services for which component was deviated in the Code comme to the rules of construction of the ASME Code Section III. The applicable Destina Specification and Stress Report III. The applicable Destina Specification and Stress Report.) ** Total number of sheets - 2 ** Total number	l. (a) Manufactured by General Electric Company, Castle H	layne Rd., Wilmington, N.C.
Identification-Certificate Holder's Serial No. of Part A5572 Nex'l Ed. No.	Iname and address of A	PT Ceraneate noticer
Meenthication-Certificate Holder's Serial No. of Part	(b) Manufactured ing General Electric Company, San Jose	vides for completed nucleus coursestant)
(a) Constructed According to Drawing No. Control Rod Drive, Model #7RDB144DG001 (b) Description of Purt Inspected Control Rod Drive, Model #7RDB144DG001 (c) Applicable ASME Code: Section III, Edition 1974 Addends date W'75 Case No. 1361-2 Class 1 Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Betef description of services for which component was designed) * Total number of sheets - 2 We cartify that the standard and in this report are covered and this vessel part or appurtenance as defined in the Code component was nother and consecution 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 Cert are Holder for appurtenance in appurtena		
Control Rod Drive, Model #7RDE144DG001 (c) Applicable ASME Code: Section III, Edition 1974 Addends date W'75 Case No. 1361-2 Class 1 Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Brisf description of services for which component was designed) * Total number of sheets - 2 We certify that the statements made in this report are correct and this reasel part or appurtenance as defined in the Code comms to the rules of construction of the ASME Code Section III. * Total number of sheets - 2 We certify that the statements made in this report are correct and this reasel part or appurtenance as defined in the Code comms to the rules of construction of the ASME Code Section III. * Total number of sheets - 2 We certify that the statements made in this report are correct and this reasel part or appurtenance as defined in the Code or mass to the rules of construction of the ASME Code Section III. * Total number of sheets - 2 We certify that the statements made in this report are correct and this reasel part or appurtenance as defined in the Code or mass to the rules of construction of the ASME Code Section III. * Total number of sheets - 2 * Total numbe	Identification-Cartificate Hoider's Serial No. of Part	NECT Bd. No.
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1 Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Bits description of service for which component was designed) * Total number of sheets - 2 * Total number of sheets - 2 ** Tota	(a) Consenected According to Drawing No. 768E534G001 Drawing	Prepared by D. L. Paterson /
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1 Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Bits description of service for which component was designed) * Total number of sheets - 2 * Total number of sheets - 2 ** Tota	(b) Description of Pert Inspected Control Rod Drive, Model	#7RDB144DG001
* Total number of sheets - 2 ** Total number of sheets - 2 ** Ve certify that the statements made in this report are correct and this reasel part or appurtenance as defined in the Code comms to the rules of construction of the ASME Code Section III. ** he applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate and Stress Report is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is clided in the tumponent Design Specification and Stress Report.) ***OFT Certificate of Authorization Expires** **September 15. 1981 Certificate of Authorization Expires** **September 15. 1981 Certificate of Authorization No.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **Design information on file at C2. **PETD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** **CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) **GE, NEPD-WAD-QA.** *	(c) Applicable ASME Code: Section III, Edition 1974, Addenda date	W'75 Case No. 1361-2 1
* Total number of sheets - 2 We certify that the statements made in this report are correct and this reasel part or appurtenance as defined in the Code comms 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 are Holder for appurtenance in responsible for furnishing a separate Design Specification and Stress Report if the appurtenance in the component Design Specification and Stress Report.) The component Design Specification and Stress Report. The component Design Report. The component Design Specification of Stress Report Stress Report. The component Design Stress Report Stre	. Standard part for use with Reactor. Hydro	statically tested at 1820 psi.
We certify that the statements made in this report are correct and this vessel part or apputrenance as defined in the Code comme to the rides of consentration 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 Cert apputrenance is responsible for furnishing a separate Design Specification and Stress Report if the appartmenance is recluded in the component Design Specification and Stress Report.) The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate of Authorization and Stress Report.) The applicable Design Specification and Stress Report.) The applicable Separate Holder Separate Ho	(Brief description of service for which	h component was designed.
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CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NED-WND-QA, Castla Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Scress malysis report on file at GE, NEPD-WMD-OA. Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by 3. N. Sridhar Prof. Eng. Scare Calif. Reg. No. 18345 Scress analysis report certified by 5. N. Sridhar Prof. Eng. Scare Calif. Reg. No. 18345 CERTIFICATE OF SHOP INSPECTION I, the undersigned, bolding a ralid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the Scare 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 1/23 1981, and state that to the best of my knowledge and belief, the NFT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither do laspector soot his employer makes sey variancy, 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 trising from or connected with this inspection.	915 7/23 19 81 Signed GE, NEPD-WMD-QA	By J. Ottoredeamic
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEED-WRD-QA, Castla Hayne Rd., Wilmington, N.C. 22A5556, Rav. 2 Screas malyais report on file at GE, NEED-WMD-OA. Castle Hayne Rd., Wilmington, N.C. 22A4912, Rav. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345 Screas analyais report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345 CERTIFICATE OF SHOP INSPECTION I, the undersigned, bolding a raild commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State 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 1/23 1981, and state that to the best of my knowledge and bellef, the NFT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector por his employer makes my variancy, expressed or impliced, 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 trising from or connected with this inspection.		/ >>>>>> > 1 1 6 7
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Stress malysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications cartified 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 1. the undersigned, bolding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and/or the State of 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 1/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate, deither the Inspector por his employer makes any variancy, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, deither the Inspector nor his employer shall be liable in may manner for any personal injury or property damage or a loss of any kind trising from or connected with this inspection.	ertificate of Authorization Expires September 15, 1981 Certi	ificate of duthorization No. MFT N-1131
GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Stress malysis 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 of 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, deither the Inspector on this employer makes they warrancy, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, deither the Inspector on this employer shall be liable in may manner for any personal injury or property damage or a loss of any kind trising from or connected with this inspection.		
Scress malysis report on file at GE, NEPD-WMD-OA, Castle Havne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345 Scress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No. 18345 CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the Scate or Province of North Carolina and employed by Dapartment of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 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 my varianty, 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 trising from or connected with this inspection.	CERTIFICATION OF DESIGN FOR APPURTED	NANCE (when applicable)
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Design specifications certified by 3. N. Sridhar Prof. Eng. Scare Calif Reg. No. 18345 Stress analysis report certified by B. N. Sridhar Prof. Eng. Scare Calif Reg. No. 18345 CERTIFICATE OF SHOP INSPECTION 1. the undersigned, bolding a radid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the Scare or Province of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 1/23 1981, and state that to the best of my knowledge and belled, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the laspector nor his employer makes my varrancy, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in my manner for any personal injury or property damage or a loss of any kind trixing from or connected with this inspection.	225000, 164. Z	
Scress analysis report certified by B. N. Stridhar CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the Scate 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 belled, the NPT Certificate, neither the Inspector nor his employer makes my variancy, 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 trising from or connected with this inspection.	22A4912, Rev. 2 Design specifications conflied by 3. 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 Scare 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 my variancy, 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 mixing from or connected with this inspection.		•
and/or the State or Province of North Carolina and employed by Dadartment 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 bellef, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, on either the laspector nor his employer makes my variancy, 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.		
and/or the State or Province of North Carolina and employed by Dadartment 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 belled, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, on either the Inspector nor his employer makes my variancy, 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 trising from or connected with this inspection.		
Partial Data Report on 7/23 1981, and state that to the best of my knowledge and beller, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the laspector nor his employer makes my variancy, 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 trising from or connected with this inspection.	and/or the State or Province of North Carolina and employed by	Department of Labor
and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, eeither the laspector not his employer makes my variancy, 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 trixing from or connected with this inspection. 7/23 81	of State of North Carolina have inspected	the part of a pressure vessel described in this
By signing this certificate, beither the Inspector nor his employer makes my warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, beither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind trising from or connected with this inspection. 7/23 81		
- 7/23 81	By signing this certificate, neither the laspector nor his employer ma- lux the part described in this Partial Data Report. Furthermo- shall be liable in any manner for any personal injury or property damage	kes my warranty, expressed or implied, concern- re, neither the inspector nor his employer
10 (3 1/7" 10 77	- 7/23 81	•
N.C. 723, PA.WC1766, CHIO	J S S 40 01	N.C. 723,PA.WC1766, CHIO
Inspector's Signature Commissions Nectional Board, State, Province and No.	Inspector's Signature Commissions	National Board, State, Province and No.

(10/77)

Sheet 2 of 2

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

16971

As required by	the Provision	of the AS	ME Code	Rules.	Section	III.	Div.	ı
ns required by	are riorision	0. 4.4			U	• • • •		•

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)

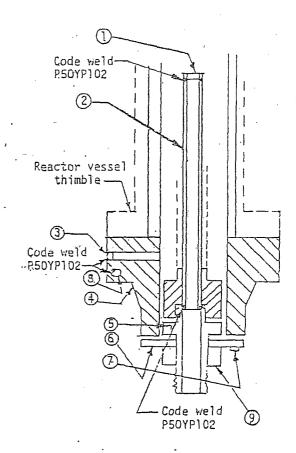
2. Identification-Certificate Holder's Serial No. of Part A5572 Nar'l Bd. No.

(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 date W'75, Case No. 1361-2 Class 1

- 1. Cap 16689274F1 (167A2343) SA182 - F316 3/8 ±hick x 1 1/16 OD
- Indicator Pipe 166E9313P1 SA312-TP316
 3/4 sch 40-seamless pipe 0.113 wall thickness 1.055 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 0D
 neck l l/l6 thick x 5.0 0D
 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 00 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 137C5934P1 XM-19 SA479 1_30 thick x 2_62 dia.

00056

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. I

·	1): 1/4 - 1 (2-4 -
I. (a) Massimum by General Electric Company, Castle Hayne Rd	Wilmington V C
I. (a) Manufactured by General First Circle Company, Castric may be not Confidence of NPT Confidence	: Holder)
(b) Magnifectured for General Electric Company, San Jose, Calife	ornia (NEBG)
(Name and entered of N Certificate Holder for compl	
2. Identification-Certificate Holder's Serial No. of Part A5583 Nat	
(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared	D. L. Peterson
(b) Description of Pert Inspected Control Rod Drive, Model #7RDB1	44DG001 NZD7
(c) Applicable ASME Code: Section III, Edition 1974, Addenda dece W175	, C25e No. 1361-2 Class 1
3. Recorded: Standard part for use with Reactor. Hydrostatical	lly tested at 1820 psi.
(Brief description of service for which component	ens dookgrad ,
* Total number of sheets - 2	
Forms to the rules of construction of the ASME Code Section III. The applicable Design Specification and Stream Report are not the responsibility of the NPT cate Holder for appartements is responsible for furnishing a separate Design Specification and Stream Report.) Date 7/23 19 81 Signed GE, NEPD-WMD-QA By ONT Certificate of Authorization Emires September 15, 1981 Certificate of A	and Stress Report of the appartenence is not
CERTIFICATION OF DESIGN FOR APPURTENANCE (+	
GE, NEPD-WMD-QA, Castle Hayne Rd., W	
Design information on file at	
22A5556, Rev. 2 Stress energy is report on file or GZ. NEPD-WMD-OA, Castle Hayne Rd., V 22A4912, Rev. 2	Wilmington, N.C.
Design specifications certified by B. N. Sridhar Prof.	Eng. State Calif Reg. No. 18345
Scress analysis report certified by B. N. Sridhar Prof.	Eag. Scare Calif Reg. No.18345
CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of E	Boiler and Pressure Vessel Inspectors
of State of North Carolina and employed by Department of State of North Carolina bave inspected the post of	a non-runn versal described in this
Bare impected the part of	nd state that to the best of my knowledge
ing the part described in this Partial Data Report. Furthermore, neither shall be liable in my manner for any personal injury or property damage or a loss with this inspection.	m the increases not his employer
Date	
W. 2. Stackwarm	87 PA 14/02711
Vineposter's Signature Commissions	OI I A. MULI II

Supplemental shrets in form of lists, sketches or drawings may be used provided (1) ture is thi' : 11", (2) information in stems (-) on this femal is included in such ties, and ill som ties in Anthony and interest in the provided in ties).

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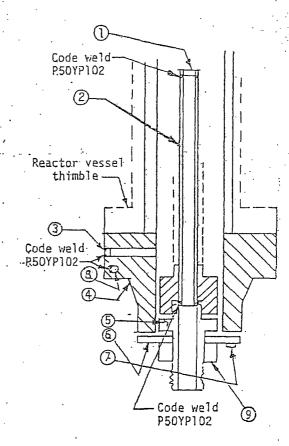
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Sheet 2 of 2 370043

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.
	(Neme 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)
identification-Certifica	ste Holder's Serial No. of PartA5583Ner'l Bd. No
(E) Constructed Acc	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
(b) Description of P	art Inspected Control Rod Drive, Model #7RDB144DG001
(c) Applicable ASME	N207 Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1

- 1. Cap 166B9274F1 (167A2343) SA182 - F316 3/8 thick x I 1/16 OD
- 2. Indicator Pipe 166B9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.
- 3. PTug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D
- Flange 919D610P1 (719E474)
 SA182-F304
 3.37 thick x 9 5/8 0D
 neck 1 1/16 thick x 5.0 0D
 2.875 ID
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 l" 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 think: x 2.62 dia. -00609

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 General Electric Company, Castle Hayne Rd., Wilmington, N.C L. (e) Manufactured by. General Electric Company, San Jose, California (NEBG) (b) Manufactured for (Name and address of N Certificate Holder for completed nuclear component) 2. Identification-Certificate Holder's Serial No. of Part . Ner'l Bd. No. 768E534G001 D. L. Peterson (2) Constructed According to Drawing No. Drawing Prepared by Control Rod Drive, Model #7RDB144DG001 (b) Description of Part Inspected N207 N295 1974 1361-2 (c) Applicable ASME Code: Section III, Edition. 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.) 8/31 19 81 Signed GE, NEPD-WMD NPT N-1151 September 75, 7981 Certificate of Authorization No. Certificate of Authorization Expires CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. Design information on file at ~22A5556, Rev. 2 GE, NEPD, San Jose, Calif. Stress analysis report on file at 22A4912, Rev. 2 Prof. Eng. State Calif Reg. No. 18345 Design specifications certified by B. N. Sridhar Scress analysis report certified by B. N. Sridhar Prof. Eng. Sence Calif CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of North Carolina and employed by Department of Labor 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. <u>8/31 ₁₉ 81</u> N.C. 723.PA.WC1766, OHIO.

"Supplemental actions of lists, sketches or drawings may be used provided (1) size is \$\frac{44}{1}" x \$11", (2) information in Items \$1-2 on this bas Report is included on each skeet, and (3) each sheet is membered and numbered and number of sheet is recorded to fiten it. Remarks".

Commissions

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National Board, State, Province and No.

Sheet 2 of 2

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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

1241

- 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)

 A5695

 Nat'l Bd. No.

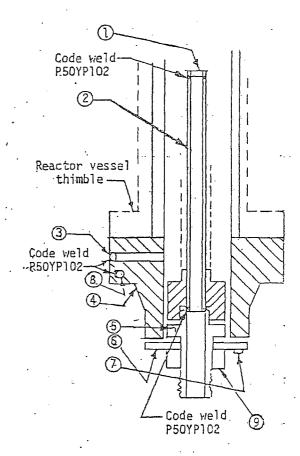
 (c) Constructed According to Drawing No. 768E534G001 Drawing Prepared by

 D. L. Peterson

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

 N207 N295

 (c) Applicable ASME Code: Section III, Edicion 1974, Addenda date W175, Case No. 1361-2 Class 1
 - T. Cap 166B9274P1
 (167A2343)
 SA182 F316
 3/8 thick x 1 1/16 OD
 - Indicator Pipe 166B9313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.
 - 3. Plug 159A1176P1 . SA182-F304 T/4 thick x 0.812 OD
 - Flange 919D610P1 (719E474) .SA182-F304
 3.37 thick x 9 5/8 0D neck 1 1/16 thick x 5.0 0D 2.875 ID
 - 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
 - 6. Ring Flange 114B5122P2
 SA182-F304
 '' thick x 5.0 0D x 1.75 ID
 - 7. Cap Screw 117C4516P2SA193-B66 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 00294 1.30 thick x 2.62 dia.

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

40 of 43

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L.	(s) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.					
	. (Aline and South of Art Certaicate Holder)					
	(b) Manufactured for General Electric Company, San Jose, California (NEEG) (Name and enterm of N Corollege to completed ductors component)					
2_	identification-Certificate Holder's Serial No. of Part A5703 Net'l Bd. No.					
	(a) Commerced According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson					
	(b) Descripcion of Per Inspected Control Rod Drive, Model #7RDB144DG001					
	N207 1361-2 1 (c) Applicable ASME Code: Section III, Edicion 1974, Addenda date W'75, Case No. Class					
•	Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.					
۶.	(Brief description of service for which component was designed)					
	* Total number of sheets - 2					
(Th	Fe certify that the streements made in this report are correct and this vessel part or appurtenance as defined in the Code comma 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 Certification programment is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not funded in the component Design Specification and Stress Report.)					
	7/22 01 CT 1 TTT 24 / CH 1 .					
Da	reficate of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151					
_	Southern 15 1003 A. W. NPT N-1151					
C	rdificate of Authorization Expires September 13, 1901 Combicate of Authorization No.					
Γ	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)					
	GE, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C.					
	Design information on file at 22A5556, Rev. :2					
	Stress analysis report on file at GZ, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. 2244912, Rev. 2					
	Design specifications certified by 3. N. Sridhar Prof. Eng. State Calif Reg. No. 18345					
	Stress analysis report certified by B. N. Sridbar 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 Same 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 7/23 181, and state that to the best of my know and belief, the NFT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificace, neither the inspector nor his employer makes my warranty; expressed or implied, co						
	ing the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in my manner for any personal injury or property damage or a loss of any kind arizing from or connected with this inspection.					
	Date 7/23 19 81					
}	N.C. 723,PA.WC1766, OHIO					
	Inspector's Signature Commissions National Board, State, Province and No.					

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Sheet 2 of 2

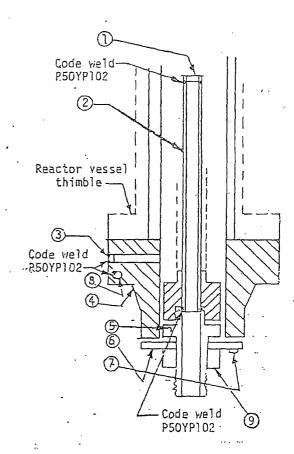
16977

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. I

41 of 43

1.	1. (a) Manufactured by General E	Electric Company, Castle Hayne Rd., Wilmington, N.C.	
	- , , , , , , , , , , , , , , , , , , ,	(Name and address of NPT Certificate Holder)	_
	(b) Manufactured for General E	Electric Company, San Jose, California (NEBG)	
		(Name and address of N Certificate Holder for completed nuclear component)	_
2.	2. Identification-Certificate Holder's Seri	ial No. of PartA5703Nar'l Bd. No	
	- 49 Tab.	D. I. Potomor	
	(a) Constructed According to Drawi	ing No. 768E534G001 Drawing Prepared by D. L. Peterson	
	(b) Description of Part Inspected_	Control Rod Drive, Model #7RDB144DG001	
	(o) Description of Fait Inspected_	. N207	_
	(c) Applicable ASVE Code: Section I		

- 1. Cap 166B9274F1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D
- 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
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 114B5122P2
 SA182-F304`
 l" 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
- 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. 00415

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

42 of 43

1.	(a) Manufactured by 'General Electric Company, Castle Hayne Rd., Wilmington, N.C.							
	(is) Manufactured for General Electric Company, San Jose, California (NEBG)							
	(6) Manufactured for General Alectric Company, San Jose, Calliornia (MADG)							
2 .	Identification-Certificate Holder's Serial No. of Park A5720 New 1 Bd. No.							
	(e) Constructed According to Drawing Ne. 768E534G001 Drawing Property by D. L. Peterson							
1	(b) Descripcion of Per Laspected Control Rod Drive, Model #7RDB144DG001							
	(c) Applicable AS4E Code Section III, Edition 1974, Addededades W'75, Case No. 1361-2 L							
3.	Standard part for use with Reactor. Hydrostatically tested at 1820 psi.							
	* Total number of sheets - 2							
foe (Tb icsi	We certify that the statements made in this report are correct and this versel part or appartenance as defined in the Code companion to the rules of construction of the ASME Code Section III. a applicable Design Specification and Stress Report are not the responsibility of the NFT Certificate Holder for parts. An NFT Certificate Holder for appartenances is responsible for furnishing a separate Design Specification and Stress Report if the appartenances is not until in the component Design Specification and Stress Report.)							
jar	7/7 19 81 Signed GE, NEPD-WAD ONEY CONTROL BUILDING ONEY CONTROL BUILDING							
	Capificace of Authorization Expires September 15, 1981 Certificate of Authorization No. NPT N-1151							
C=	rificace of Authorization Expires September 15, 1981 Certificate of Authorization No. 1871 N-1131							
C. c.	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)							
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C.							
	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 GE, NEPD, San Jose, Calif. 22A4912, Rev. 2							
	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 GE, NEPD, San Jose, Calif. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. Seste Calif. Reg. No. 18345							
	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 GE, NEPD, San Jose, Calif. 22A4912, Rev. 2							
	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 GE, NEPD, San Jose, Calif. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. Seste Calif. Reg. No. 18345							
	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 GE, NEPD, San Jose, Calif. 22A4912, Rev. 2 Design specifications cardified by B. N. Sridhar Prof. Eng. Scate Calif. Reg. No. 18345 Scress analysis report cardified by B. N. Sridhar Prof. Eng. Scate Calif. Reg. No. 18345							
	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 GE, NEPD, San Jose, Calif. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. Scare Calif Reg. No. 18345 CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the Nazional Board of Boiler and Pressure Vessel Inspectors and/or the State of 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 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, patibut the laspector are his caployer makes any warrancy, expressed or isoplied, concerning the part described in this Partial Data Report. Furthermore, Deither the Inspector nor his employer thall be liable in any manner for any personal injury or property desage or a loss of any kind arising from or connected							

Sheet 2 of 2

16911

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

430043

- i. (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 nucleur component)

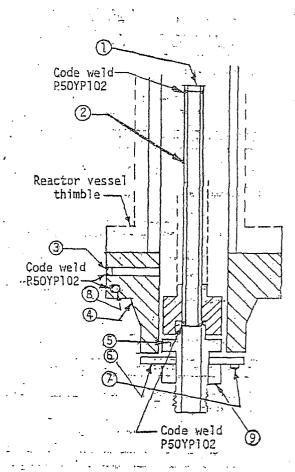
 2. Identification-Certificate Holder's Serial No. of Part, A5720

 (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 W175 Case No. 1361-2 Class 1
 - 1. Cap 166B9274P1 (167A2343) SA1B2 - F376 3/8 thick x 1 1/16 OD

- 2. Indicator Pipe 166E9313P1 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 00
 meck 1-1/16 thick x 5.0 00
 -2.875-IB
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 OD x .884 ID
- 6. Ring Flange 114B5T22P2
 -SA182-F304-1" thick x 5.0 00 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. 00585

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI							
PI	NPP No. 9308 F		quired by the Provi	SIONS OF LA		one secu		NQI-1741
1.	Owner:	FIRS	TENERGY CORP.				Date <u>10/24/07</u>	
		10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1
					* · ·	•		
2.	Plant:	Perry Nucl	ear Power Plant (P	NPP)			Unit <u>1</u>	
		10-Center F	Road, Perry, Ohio 4	14081			ECP 06-0022 (Repair Org. P.O. N	lo., etc.)
								•
3.	Work Perfo	• · <u> </u>	NERGY Nuclear Ope			•	Type Code Symb	· ·
		10 Ce	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No	
							Expiration Date 9	9/28/08
4.	Identificatio	n of System: NUC	LEAR BOILER B2	1 / INSTR	UMENT A	IR P57		
5.	(a) Applicat	ole Construction Co	ode: ASME SECTION			13	,19 <u>74</u> Editi	on
	Winter		NAME/SECT Addenda .Code !			N71-6 N71	i-9 N224-1 N225 N	J241 N242
	•	272.N282;N413,16		0430(0)	110,1102 1,1	17 7 0,117	0,7422 (1,74220,1	
			or repairs, modifica	itions, or re	placemen	ts: <u>1974</u>	W75	*
	() NOME (5-1-0-E-XI	P h.l. # l	1	·		tion Addenda	Code Case(s)
	(c) ASME Code Section XI applicable for Inservice Inspection: 1989 NONE NIA Code Case(s)							
	(d) Applical	ble Edition of Secti	on XI Utilized for R	epairs, Mo	dification,	or Replac	ements:	
	19 <u>95 </u>	19 <u>N/A</u>	Addenda <u>N/A</u>	Case(s)				
		Responsibilities <u>F</u>	irst Energy Corp	<u>-i</u>				
6. 	Identification	of Components F	Repaired, Modified,	or Replac	ement Cor	nponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	Piping system	Johnson Controls	1P57-0043-F	. 033	N/A	1985	REPAIR	YES
	Piping system	Johnson Controls	1B21-0070-F	001	N/A	1985	REPAIR	YES
	Piping system	PULLMAN POWER	1P57	110	N/A	1985	REPAIR	YES
	Piping system	PULLMAN POWER	1B21 ·	109	N/A	1985	REPAIR	YES
7.	Description	of Work: THE DE	SIGN DOCUMEN	T FOR TH	IS RERAT	ING IS EC	P-06-0022	
	THIS WAS	A DOCUMENT O	NLY DESIGN CHA	NGE WIT	H NO FIE!	D WORK	SEE REMARKS	SECTION.
3.	Test Conduc	cted: Hydrostatio			lominal Op	erating Pr	essure- Oth	er- 🗌
	Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A							

14.	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQI-1741
g	Remarks: The design pressure of portions of the B21 and P57 air supply system downstream of the
. <u>1</u>	P57F00524A/B valves to the air accumulator tanks is increased from 200 psig to 210 psig.
_	
_	
_	
Ν	lote: 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. Michael J Tepsick, 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 08
	Date 24 Oct. , 20 07 Signed FENOC-PNPP Mult July OC Tech. (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_CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on Nov. 5, 20 07 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,
1	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 H 5, 20 DT Signed Therway Logal Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI							
PNPP No. 9308		quired by the Provi	SIONS OF EN		oos Secu) N	NQI-1741
1. Owner: _	FIRST	ENERGY CORP.		 :		Date <u>5-6-</u>	9
_	10 Center Road, Perry, Onio 44081						1
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1							
		Road, Perry, Ohio 4				200.280561 50	1756.9
(Repair Org. P.O. No., etc.)							
3. Work Perf	ormed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Com	noany PNPP		Type Code Symb	ool Stamp <u>NR</u>
	10 Ce	enter Road, Perry,	<u>Ohio 4408</u>	<u>1</u>		Authorization No.	33
		•				Expiration Date 0	09/28/2011
4. Identification	on of System: <u>NUC</u>	CLEAR BOILER PE	ROCESS '	1B21			
5. (a) Applica	ble Construction Co	ode: <u>ASME Section</u>	III Class	1 N/CLASS		19 <u>74</u> Editio	on
WINT	<u> 19. 75</u> /	Addenda Code	Case(s) <u>N</u>	272, 1644-	5, 1728, N	1413	
(b) Constr	ruction Code used for	or repairs, modifica	itions, or re	eplacement		W 1975 tion Addenda	none Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspect	tion:	1989 Edi	none tion Addenda	none Code Case(s)
(d) Applica	able Edition of Secti	on XI Utilized for R	tepairs, Mo	odification,	or Replac	ements:	
	19 <u>none</u>			·			
(e) Design	Responsibilities F		e Case(s) 'RP.				a almostros, p
	on of Components F		•	ement Con	nponents	٠.	
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES
		.					
					-		
			<u> </u>	<u> </u>	 	<u> </u>	
<u> </u>			<u></u>	ļ	l		
7. Description	of Work: REPLAC	ED SNUBBER S/N	N 97-61426	33-33 WITH	SNUBB	ER S/N 30800103/	006
ALSO INS	STALLED FWD BRA	ACKET ASSY HT#	N2037-G	/N4312. PI	ANT ID	IB21H453.	· · · · · ·
8. Test Condi	ucted: Hydrostatic	- 🗌 Pneumat	1 🔲 -oi:	Nominal Op	erating P	ressure- 🗌 Oth	er- 🗌
Pressure <u>I</u>	Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A						

Ρ	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
a	. Remarks:
J	· ·
_	
1	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.
N	ote: 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, Michael J Tepsick , 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 11
	Date 6 MAY , 20 09 Signed FENOC-PNPP 9M of Tech. (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 CT: of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MAY 7, 20 09 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 5/7, 20 09 Signed Thomas NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

,

As required by the Provisions of the ASME Code Section XI PNPP No. 9308 Rev. 9/11/00 NQI-1741							
1. Owner: FIRSTENERGY CORP. Date 5-11-9							
10 Center Road, Perry, Ohio 44081 Sheet 1 of							
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1	71418-4-4-						
10 Center Road, Perry, Ohio 44081							
Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbo	l Stamp NR						
10 Center Road, Perry, Ohio 44081 Authorization No.							
Expiration Date 09	/28/2011						
Identification of System: NUCLEAR BOILER PROCESS 1B21							
5. (a) Applicable Construction Code: ASME Section III Class 1 .1974 Edition	1						
NAME/SECTION/DIVISION/CLASS							
WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413							
(b) Construction Code used for repairs, modifications, or replacements: 1974 W 1975	none						
Edition Addenda (Code Case(s)						
	none Code Case(s)						
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:							
19 <u>89 , 19 none Addenda none</u> Code Case(s)							
(e) Design Responsibilities FIRSTENERGY CORP.							
6. Identification of Components Repaired, Modified, or Replacement Components							
Name of Name of Manufacturer Nat. Other Year Repair, Component Manufacturer Serial No. No. Suit Replacement, No. Other Year Repair, Replacement, No. Other Year Repair, Replacement, or Modification	ASME Code Stamped						
PIPING PULLMAN 1B21 N/A N/A 1985 Replacement SYSTEM POWER	YES						
7. Description of Work: REPLACED SNUBBER S/N 00-614813-002 WITH SNUBBER S/N 02615163/	D02						
ALSO INSTALLED A LOAD STUD HT# MSP AND 2 JAM NUTS C OF C 1894, PLANT ID 1821H4							
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 (Back) PP No. 9308 Rev. 9/11/00 NQI-1741
Remarks:
O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
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 on the front of this form.
CERTIFICATE OF COMPLIANCE I, Michael J Tepsick, 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 11
Date 11 MAY 20 09 Signed FENOC-PNPP 911-1 QC Tech. (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I. Thomas G. Labs, 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 HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on MAY 12, 20 29 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 512, 20 09 Signed Thomas Hold Commissions NB 9330 "N" "]" "A" Ohio Comm. (Inspector) (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

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1B21-407

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI								
P	NPP No. 9308 R		duired by the Provi	SIONS OF U	E ASME C)II AI	NQI-1741	
1	. Owner:	FIRST	ENERGY CORP.				Date <u>5-12</u>	2-9	
	. —	10 Center R	toad, Perry, Ohio	44081			Sheet 1 of	· <u>1</u>	
٠									
2	. Plant:		ear Power Plant (P						
		10 Center R	load, Perry, Ohio 4	4081			200280563 (Repair Org. P.O. N	lo., etc.)	
٦	Work Perfo	· rmed Bv: EIPSTE)	NERGY Nuclear Ope	eration Con	nany PNPP	.	Type Code Symt	ool Stamp N	R
"	, vvoik i cito	•	nter Road, Perry, (-	Authorization No	,	77
					-		Expiration Date (_
4	Identification	n of System: : NHO	LEAR BOILER PE	ROCESS	1B21				
			de: ASME Section				,1974 Editi		-
ر ا	(а) Арріісац	ne Construction Co	NAME/SECT	ION/DIVISIO	N/CLASS	_			
	WINTE	R . 19 <u>75</u> A	Addenda Code	Case(s) <u>N</u>	272, 1644-	<u>5, 1728, N</u>	1413		
	(b) Constru	ction Code used to	or repairs, modifica	tions, or r	anlacemen	te: 1074	W 1975	none	
	(D) Constitu	Clion Code asea id	n repairs, mounica	itions; or i	эргасегтет		tion Addenda	Code Case(s	;)
	(c) ASME (Code Section XI.ap	plicable for Inservi	ce Inspec	tion:	<u>1989</u> - Edi	none tion Addenda	none	s)
	(d) Applicat	ole Edition of Section	on XI Utilized for R	epairs, M	odification,	or Replac	ements:		
	19 <u>89</u> ,	19 <u>none</u>	Addenda <u>non</u>	e Case(s)				,	
	(e) Design	Responsibilities <u>Fl</u>	RSTENERGY CO			·	•	•	
6.	Identification	n of Components F	Repaired, Modified,	or Replac	ement Co	mponents	•		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
	PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES	
						,			
		·							
Ì						1			
Ì									_
7 7	Description	of Work: REPLAC	ED SNUBBER S/N	! !	3-001 WI	TH SNUB	BER S/N 3070052	<u></u> 4/016	į
•			<u>ED GNOBBER, OF</u> RD BRACKETT AS						
8.		oted: Hydrostatic	•				<u></u>	er- []	
	Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A								

a.	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741.
c). Remarks:
-	
_	
_	
1	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.
Ņ	lote: 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, Michael J Tepsick, 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 11
	Date 12 MAY , 20 09 Signed FENOC-PNPP // QC Tech. (name of repair organization) (authorized representative) (title)
	grame or repair organizations (authorized representative) (liber)
	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 CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MAY 13, 20 09 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 13 , 20 09 Signed Through Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

As required by the Provisions of the ASME Code Section XI PNPP No. 9308 Rev. 9/11/00 NQL-174	1								
	<u>. </u>								
1. Owner: FIRSTENERGY CORP. Date5-6-9									
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1									
Plant: Perry Nuclear Power Plant (PNPP) Unit 1									
10 Center Road, Perry, Ohio 44081 200280557 (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 09/28/201	1								
Identification of System: NUCLEAR BOILER PROCESS 1B21									
5. (a) Applicable Construction Code: ASME Section III Class 1									
WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413									
(b) Construction Code used for repairs, modifications, or replacements: 1974 W 1975. none Edition Addenda Code Car	<u>=(s)</u>								
(c) ASME Code Section XI applicable for Inservice Inspection: 1989 none none									
Edition Addenda Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:	e(s)								
19.89 , 19 <u>none</u> Addenda <u>none</u>									
Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP.									
6. Identification of Components Repaired, Modified, or Replacement Components	•								
Name of Name of Manufacturer Serial No. Name of Manufacturer Serial No. Nat. Other Year Repair, ASME Board ID. Built Replacement, or Modification Stampe	,								
PIPING PULLMAN 1821 N/A N/A 1985 Replacement YES SYSTEM POWER									
	7								
	7								
	-								
	\dashv								
7. Description of Work: REPLACED SNUBBER S/N 97-614263-30 WITH SNUBBER S/N 30800103/008	_								
ALSO INSTALLED FWD BRACKET ASSY HT# N2038/N4312, PLANT ID 1B21H447.	_								
8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-									
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A									

9. Remarks:	
	·····
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NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SEC	CTION
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN REC	EIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 report is included on each sheet, and (3) each sheet is numbered and the number of sheets is re the front of this form.	of this
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report correct and the repair, modification or replacement of the items described above conforms to Section XI of the Code and to the National Board Inspection Code "NR" rules.	ort are ASME
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20	11_
Date 6 MAY , 20 09 Signed FENOC-PNPP Med Jel QC Tech. (name of repair organization) (authorized representative) (title)	
(use)	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	.::
I, <u>Thomas G. Laps</u> , holding a valid commission issued by The National Board of Boar	J .
and employed by HSB CT. of Hartford, Conn.	
inspected the repair, modification or replacement described in this report on May 7, 20 09 and state the	
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance	
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	ZE WILL
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 list	- 1
any manner for any personal injury, properly damage or loss of any kind arising from or connected with this ins	
Date 5/7, 20 09 Signed Thomas J. Commissions NB 9330 "N" "I" "A" Ohio Col (National Board (include endorse and jurisdiction, and no.)	mm. ements),

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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								
P	NPP No. 9308 R							NQI-1741	
1	Owner:	FIRST	ENERGY CORP.				Date <u>5-6-</u> 9	9	
		10 Center F	Road, Perry. Ohio	44081			Sheet 1 of	1	
,	Plant:	Dorne Nucl	oar Bower Blant (F	NIDD)			Unit 1		
2	. Flant		ear Power Plant (P						
		10 Center F	Road, Perry, Ohio 4	14061	<u>_</u>		200280562 (Repair Org. P.O. N	lo., etc.)	
3.	Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Corr	pany PNPP		Type Code Symb	ool Stamp <u>NR</u>	
	•	10 Ce	enter Road, Perry.	Ohio 4408	1		Authorization No.	33	
	Expiration Date								
4.	Identification	n of System: <u>NU(</u>	CLEAR BOILER PI	ROCESS	IB21				
5.	(a) Applicab	le Construction Co	ode: <u>ASME Sectior</u> NAME/SECT				19 <u>74</u> Editio	on	
	WINTE	R 19 75 /	Addenda Code			5, 1728, N	14 13		
	(b) Constru	ction Code used fo	or repairs, modifica	itions, or r	eplacement		W 1975.	none Code Case(s)	
	(c) ASME	Code Section XI ap	plicable for Inservi	ce Inspec	ion:	1989	none	none	
	(d) Applicat	ole Edition of Secti	on XI Utilized for R	tepairs, Mo	odification,		tion Addenda i	Code Case(s)	
			Aḍdenda <u>non</u>	e	·	,			
	(e) Design	Responsibilities <u>F</u>	Code IRSTENERGY CO	e Case(s) RP.					
6.			Repaired, Modified,		ement Cor	nponents	•		
	Name of	Name of	Manufacturer	Nat. Board	Other	Year	Repair, Replacement,	ASME Code	
-	Component	Manufacturer	Serial No.	No.	ID.	Built	or Modification	Stamped	
	PIPING SYSTEM	PULLMAN POWER	, 1B21	N/A	N/A	1985	Replacement	YES	
.									
Ì									
f						-		 1. '	
-									
7 7	Description	of Work: REPLAC	ED SNUBBER S/N	J 97-61426	1 3-27 WITH	L SNI IRR	FR S/N 30800103/	002	
:			ACKET ASSY HT#						
8.	Test Conduc					• T		er- []	
	Pressure N	<u>/A</u> psi Te	st Temperature <u>N</u>	/A c	legrees F	Code	Cașe(s) N/A	<u> </u>	

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)
Pì	NPP No. 9308 Rev. 9/11/00 NQI-1741
9.	Remarks:
-	
	,
	ON MANAGEM ATTENTANDING REPORTED BUT TO THE NATIONAL OF CONTROL OF CARDA RECTION
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
<u>1.</u>	8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or
1 40	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.
	the none of this joint.
	CERTIFICATE OF COMPLIANCE
	i, <u>Michael J Tepsick</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. 33 to use the "NR stamp expires 28 Sept. 20 11
	Date 6 MAY , 20 09 Signed FENOC-PNPP Multiple OC Tech. (name of repair organization) (authorized representative) (title)
	(name of repair organization) (authorized representative) (title)
Ì	
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G, Labs ,holding a valid commission issued by The National Board of Boiler and
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
1	and employed by HSB CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on Mky 7, 20 09 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
Į	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
	Date 5/7, 20 09 Signed Themes Lower Commissions NB 9330 "N" " " "A" Ohio Comm.
	(inspector) (National Board (include endorsements),
- 1	and jurisdiction, and no.)

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P	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI PNPP No. 9303 Rev. 9/11/00 NQI-1741									
1	. Owner.	FIRST	ENERGY CORP				Date 5-6-9	9		
'	. Owner		toad, Perry Ohio	44081			Sheet 1 of			
					**					
2	. Plant:	Perry Nucl	ear Power Plant (P	NPP)			Unit 1			
		10 Center R	toad, Perry, Ohio 4	4081		•	200280564 (Repair Org. P.O. N	o., etc.)		
١,	3. Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u> (
3	. VVork Perto	•	nter Road, Perry,				Authorization No.			
		10,00	mer Road, Ferry,	01110 4408			Expiration Date (
	ldantificatio	NU IC	N EAD DOILED D		1001	-				
l		n of System: <u>NUC</u>								
5	. (a) Applicat	le Construction Co	ode: <u>ASME Section</u> NAME/SECT	III Class ION/DIVISIO	N/CLASS		19 <u>74</u> Éditio	on		
	WINTE	R 19 <u>75</u> A	Addenda Code	Case(s) <u>N</u>	272, 1644-	5, 1728, N	1413			
										
	(b) Constru	ction Code used fo	or repairs, modifica	itions, or re	eplacement		tion W 1975 Addenda	none Code Case(s)		
	(c) ASME (Code Section XI ap	plicable for Inservi	ce Inspect	ion:	1989	nonetion Addenda	none Code Case(s)		
	(d) Applical	ble Edition of Secti	on XI Utilized for R	tepairs. Mo	odification.	•		Code Case(s)		
		19 <u>none</u>								
		Responsibilities <u>Fl</u>	Code	e Case(s)			. •			
6.		n of Components F				nponents		į		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped		
	PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES		
						ŕ				
										
L 7	Description	of Mork: PEPLAC	ED SNI IBBED SA	1 07-61/26	3-25 WITH	! ! SNI IBBI	I ER S/N 30800103/	007		
	PLANT ID		FR GIADBOPLY OV	+ 31-0142C	-D-ZU VVIII	, 011000	LIX 0134 00000 1007			
8.	Test Condu		- Pneumat	ic- 🔲 1	Nominal Op	erating P	ressure- Oth	er- 🗌		
	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 (Back) PNPP No. 9308 Rev. 9/11/00
9. Remarks:
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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, Michael J Teosick, 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 11
Date 6 MAY 20 09 Signed FENOC-PNPP Mul Jul QC Tech. (name of repair organization) (authorized representative) (title)
(name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Lapsholding 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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on MAY 7, 20 09 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 5/7, 20 oq Signed Therman A Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

AND REPORTED THE REPORT OF THE PROPERTY OF THE

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NIS-2	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI										
PNPP No. 9308		quired by the Prov	isions of th	ie ASME C	ode Section	on XI	NQI-1741				
1. Owner:	EIDS)	ENERGY CORP.				Date 5-6-9	۵				
1. Owner _		Road. Perry, Ohio	44081	<u></u>	-	Sheet 1 of					
	70 Oction 1	Codd. 1 only, other	7 7001			0.1001	· .				
2. Plant: _	Perry Nucl	ear Power Plant (I	PNPP)			Unit 1					
_	10 Center F	Road, Perry, Ohio	44081	·		200280555	 				
						(Repair Org. P.O. N	lo., etc.)				
3. Work Perf	3. Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u>										
	10 Ce	enter Road, Perry,	Ohio 4408	1		Authorization No.	33				
		*				Expiration Date (09/28/2011				
4. Identificati	on of System: NUC	CLEAR BOILER P	ROCESS	1B21							
5. (a) Applica	ible Construction Co					19 <u>74</u> Editio	on				
\\/!\!\	ED 10.75	NAME/SECT			£ 1700 k	1412					
AAUALI	ER 19 <u>75</u> /	Addenda Code	Case(s) N	212, 1044-	5, 1720, N	J413					
(b) Constr	uction Code used for	or renairs modifica	etions or r	enlacemen	te: 1974	W 1975	none				
(5) 001136	1000011 0000 0300 10	or repairs, mounte	200713, 01 1	ари с еттен		tion Addenda	Code Case(s)				
(c) ASME	Code Section XI ap	pplicable for Inserv	ice Inspec	tion:	1989 Edi	. <u>none</u> tion Addenda	none Code Case(s)				
(d) Applic	able Edition of Secti	on XI Utilized for F	Renairs M	odification			Obbe Case(s)				
	19 <u>none</u>				, , , , ,		·				
	Responsibilities <u>F</u>	Cod	e Case(s)			, tauer					
-	on of Components F			cement Cor	mponents						
	· · · · · · · · · · · · · · · · · · ·		Nat.			Repair,	ASME				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other ID.	Year Built	Replacement, or Modification	Code Stamped				
PIPING	PULLMAN	1B21	N/A	N/A	1985	Replacement	YES				
SYSTEM	POWER				ļ						
	<u> </u>				 		 				
· L	li nemi e	ED 0)	1	000.00.	D 07 04 13	000 00 10//=11 00::::	<u> </u>				
	of Work: <u>REPLAC</u> 0103/005 AND 016				<u>D 97-6142</u>	203-29 VVITH SNU	RRFK2				
		•			perating P	ressure C Oth	er- []				
	. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-										
Pressure !		st Temperature	I/A 4	degrees F	Code	Case(s) N/A					

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP.No. 9308 Rev. 9/11/00 NQI-174	:1
9. Remarks:	
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	•
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 the front of this form.	on
CERTIFICATE OF COMPLIANCE]
I, Michael J Tepsick , 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 11	
Date 6 MAY , 20 09 Signed FENOC-PNPP	
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 ofOHIO	
and employed by HSB CT, of Hartford, Conn. have	
inspected the repair, modification or replacement described in this report on MAY 12 20 09 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, 2009 Signed Thomas Library Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)	

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		R'S REPOR'								
PNPP No. 9308	Rev. 9/11/00						NQI-1741			
1. Owner: _	FIRST	ENERGY CORP.				Date5-6-	9 '			
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1			
2. Plant: _	Perry Nucl	ear Power Plant (F	NPP)			Unit 1	·			
·	10 Center F	Road, Perry, Ohio 4	4081			200280565				
,						(Repair Org. P.O. N	lo., etc.)			
3. Work Perfo	3. Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u>									
	10 Ce	enter Road, Perry.	<u>Ohio 4408</u>	<u>1</u>		Authorization No.	33			
						Expiration Date (09/28/2011			
4. Identification	on of System: <u>NUC</u>	CLEAR BOILER PE	ROCESS	1B21						
5. (a) Applica	ble Construction Co	ode: <u>ASME Section</u> NAME/SECT	n III Class	1 N/CLASS		,19 <u>74</u> Editio	on			
WINTE	<u>R</u> 19 <u>75</u> /				5 1728 N	1413				
34114.17	10 10 10 1	naderida Oode		272, 1077	0, 1120, 1					
(h) Constr	uction Code used for	or renairs, modifica	ations or n	eplacemeni	rs: 1974	W 1975	none			
(5) 0011311	bollon oods assa n	or repairs, modifice	,	spidoeiniein		tion Addenda	Code Case(s)			
(c) ASME	Code Section XI ar	plicable for Inservi	ice Inspec	tion:	1989		none			
(d) Applies	ble Edition of Secti	on VI I Hiliand for D	longiro M	adification .			Code Case(s)			
				Julioalion,	or Replac	enents.				
	19 <u>none</u>	Code	e Case(s)							
	Responsibilities <u>F</u>						,			
6. Identification	n of Components F	Repaired, Modified,	or Replac	ement Cor	nponents					
Name of	Name of	Manufacturer	Nat. Board	Other	Year	Repair, Replacement,	ASME Code			
Component	Manufacturer	Serial No.	No.	ID.	Built	or Modification	Stamped			
PIPING SYSTEM	PULLMAN POWER	1B2 1	N/A	N/A	1985	Replacement	YES			
	<u> </u>			 	 		 			
<u> </u>										
				1						
		·								
7 Dossieli	of Morie DEDI AC		1.07.6140	22 26 MIT	1 6 Mi 10 C	ED C/N 30900403	<u> </u>			
•	of Work: <u>REPLAC</u> TALLED FWD BR									
							er- []			
	octed: Hydrostatio			•	. •		- []			
Pressure M	Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A									

PI	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
9	Remarks:
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N	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
<u>1.</u>	8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
No	ote: 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, Michael J Tepsick , 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 11
	Date 6 MAY , 20 09 Signed FENOC-PNPP
	CERTIFICATE OF INCRESTIONAL PROPERTION
1	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION 1, 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 CT. of Hartford, Conn. have
1	inspected the repair, modification or replacement described in this report on MAY 7, 20 09 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 57, 20 05 Signed Thomas Signed Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI							
PN	PP No. 9308 R		quired by the Prov	isions of tr	HE ASME CO	ode Secti	on XI	NQI-1741
1.	Owner:	FIRST	ENERGY CORP.				Date5-19	1- 9
			Road, Perry, Ohio	44081			Sheet 1 of	
							•	
2.	Plant: _	Perry Nucl	ear Power Plant (F	PNPP)			Unit 1	
10 Center Road, Perry, Ohio 44081 200174644 (Repair Org. P.O. No., etc.						in etc.)		
							(1.0pa, 0.1g. 1.5, 1.	
3.	Work Perfo	•	NERGY Nuclear Opt				Type Code Symb	
		* 10 Ce	enter Road, Perry,	Ohio 4408	<u>:1</u>		Authorization No.	
·							Expiration Date (09/28/2011
4.	Identification	n of System: <u>NUC</u>	CLEAR BOILER P	ROCESS	1B21			
5.	(a) Applicat	le Construction Co	ode: ASME Section		1		19 <u>74</u> Editio	on
	MINITE	P 19 75 4	NAME/SECT Addenda Code			1728		
	771131	10 10 ,		0400(0) <u>s</u>	12, 10,11,1	1725		
1	(b) Constru	ction Code used fo	or repairs, modifica	ations, or r	eplacement	s: <u>1974</u>	W 1975	none
	(- \ ACME (, 	-ti-able for the	: {	·		tion Addenda	Code Case(s)
((C) ASME (one Section At ap	plicable for Inserv	ice inspec	DON:		none tion Addenda	none Code Case(s)
((d) Applical	ole Edition of Secti	on XI Utilized for F	Repairs, M	odification, o	or Replac	ements:	
	19 <u>89</u> ,	19 <u>none</u>	Addenda <u>non</u> Cod	e Case(s)				
			RSTENERGY CO	RP.			• •	
6. I	dentification	of Components R	epaired, Modified	, or Replac	ement Con	ponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F41E	1985	Replacement	YES
			<u> </u>		·	!		
-						· ·]	.
L					l			└──┤
	·		ED VALVE S/N 16	0887 WIT	H VALVE S	/N 16085	0.	
	SEE REMA Fest Conduc		- ☐ Pneumat		Nominal Ope	erating D	raccura M Oth	
	rest Conduc Pressure 10	-	st Temperature 12	_	legrees F	Ū	Case(s) N/A	-1-[]
١	,000010 10	<u></u>			.09,000		0300(0) 1477	

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NO. 9306 Rev. 9/11/00 NQI-1741
9	Remarks: INSTALLED 12 STUDS 1-5/8*-8 HT# 0G84 AND 12 HYDRA NUTS 1-5/8"-8 HT# 590A.
_	16 STUDS 1"-8 (15 HT# 2C05 AND 1 HT#0G81), 16 HYDRA NUTS 1"-8 HT# 591A.
_	
	NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
	.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	lote: 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, Michael J Tepsick 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 11
	Date 19 MAY 20 09 Signed FENOC-PNPP And James of repair organization) (authorized representative) QC Tech.
	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 CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MA 10 20 04 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 30, 20 69 Signed Thomas Light Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

r or never a service a service as service as the restriction of the contract o

1821-413 SHEET 2 OF 2

FORM NV-1 MANUFACTURERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*

(As Required by the Provisions of the ASME Code, Section III, Div. I)

. 1. Manufactured by	G. Dikkers & Co. N.V	. Hengelo (U) The Nech	erlands :
2. Manufactured for	Pecry I		
3 /	(Name and Address of	Purchaser or Owner)	
3. Location of Installation	North Perry, Ohio (Name and Ac	friresel .	
4=	.G471=6/125.04.04 (Drawing No.)	29 (Nat'L Brd, No.)	1978 (Year Built)
5. Valve (Model N	C471 1	dentifying Nos. 160850	ers' Serial No.)
Type Safety, S	safety/relief afety Relief; Pilox; Power Acquated		
		outlet	
6. Set Pressure (PSIG)	-1-165	Rated Temperature	
Stamped Capacity	905732 lbs/hr @	U % Overpressure Blowdow	m (PSIG)4().5
Hydrostatic Test (PSIG)	Inlet2350	Outlet	. 975
7. Pressure Retaining Piece	es .	Outlet (Applicable to va	lves for closed systems only)
•	Serial No. or Identification	Materi	al Specification Type or Grade
Body _	15-04-8-6/a-1-	SA 352 LCB	
Support Rods		01135-0-130-0-	
Nozzle _	- AEU-038		
	-55.52.7 s/n-2A	•	
Spring Washers	211653 s/n 20	·	67
Adjusting Screw	AFU. 118 + U19	. SA 182_F316	
Spindle	AJE 005		ype 630 cond. H1100
Spring			Abe air cong. HIIM
Bolting	AJZ, AJR, AKA, AJJ, A		10/ 7/0: 10/ 0:
Other Pieces	AUY, AMR, AMM, AML	•	A 194-7/SA 194-2H
Liner.	56.04.8 s/n/l		
Cover	55.46.7 s/n 6		
Vent pipe	AFW UUI	SA 351 CERM	<u> </u>
Flanges		SA 105	
r ranges	AFV 074 + 102	SA 105	
Max. purside di	an. valve body:	476 դադ (18	.74 inch)
Max. outside le	ngth valve :	1045 mm (64	**
R	ECEIVED		
AL	N 11 1979		•
	1PP-SO/DC-		

(1/76)

This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

^{*} 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

MK. OTHE LOTTE

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., I 974 Edition, Addenda sum. 176 (Date)				
Date 10-11-78 Signed C. Dikkers & Co. N.V. by W.M. Willems				
Our ASME Certificate of Authorization No. 1806 to use the NV (NV)				
symbol expires 1 sr 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 by Boyd P. Brooks PE State California Reg. No. 13655				
Stress report certified by' Robert L. Weiss PE State California/Illinois Reg. No. M14921/62-25749				
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 <u>Ohio</u> and employed by <u>Kemper Ins</u> of <u>Long Groye</u> , III. have inspected the pump, or valve, described in this Data Report on <u>10-11</u>				
By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning to 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 19 78				

Commissions

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI								
PNPP N	o. 9308 F	Rev. 9/11/00		1510115 01 11	IS ASIVIE CE			NQI-1741
1. Owr	ner:	FIRS]	ENERGY CORP.				Date <u>5-19</u>	-9
	_	10 Center F	Road, Perry, Ohio	44081_			Sheet 1 of	
2. Plar	ıt	Perry Nucl	ear Power Plant (F	NPP)			Unit 1	
10 Center Road, Perry, Ohio 44081						200174646 (Repair Org. P.O. N	o., etc.)	
					4			
3. Wor	к Репо	•	NERGY Nuclear Operny,				Type Code Symb	
		10 Ce	mer Road, Perry,	<u> </u>	<u>.l.</u>		Expiration Date (
4 14	### _ ## _	f Combanne - NH 10			4 D O 4		•	
			CLEAR BOILER P					-
5. (a) A	\pplicat	ole Construction Co	ode: <u>ASME Section</u> NAME/SECT	n III Class ION/DIVISIO			19 <u>74</u> Edition	on ·
,	WINTE	R 19 75 A	Addenda Code	Case(s) <u>2</u>	72, 1644-4,	1728		
-	· 							<u> </u>
(b)	Constru	ection Code used for	or repairs, modifica	ations, or r	eplacement		W 1975 tion Addenda	none Code Case(s)
(c)	ASME (Code Section XI ap	plicable for Inserv	ice Inspec	tion:		none	none
(2)	<u> </u>		as VI Hilliand for F	Danaisa M	diffection s		tion Addenda	Code Case(s)
			on XI Utilized for F Addenda <u>non</u>		ounication, c	л керіас	ernems.	
		•		e Case(s)			•	
			Repaired, Modified		ement Corr	ponents	•	
	ne of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
1	ponent	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
PIPIN SYST		GENERAL ELECTRIC	1B21	64084	1B21F41C	1985	Replacement	YES
	·							
				 				
-	****							 [
								<u> </u>
	ription EREMA		ED VALVE S/N 16	0885 WIT	H VALVE S	/N 15086		
8. Test			- Pneumat	tic- 🗍 🚶	Nominal Ope	eratino P	ressure- 🕅 Othe	er- 🗌
	sure <u>10</u>	·	st Temperature 12	_	legrees F	_	Case(s) N/A	

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,
_1	16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.
_	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.
Ν	ote: 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, Michael J Tepsick, 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 11
	Date 19 MAY , 20 09 Signed FENOC-PNPP Must 1 Ind. QC Tech. (name of repair organization) (authorized representative) (title)
i	
	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
	and employed by HSB CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on may 10. 20 09 and state that to
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
1	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 09 Signed Transcal Logar Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1821-414 SHEET 2 OF 2

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. I

Manufactured by	G. Dikkers & Co. NV. Henge (Name and Address of M Certifi	czie Holderi	CHELLOID 2		
Manufactured for _	General Electric, San Jose	e, California_			
	(Name and Address of Purcha: Perry II North Perry Ohio	ser or Owner)			
Location of Installation					
	G 471-6/125.04.03 rev. 6	65	1978		
(CRN)	G471 (Drawing No.)	(Nart. Brd. No.)	(Year Buik)		
Valve(Mode	Identify	mg 1405	ertificate Holder's Serial No.)		
	No Sories No.) Safety/Relief				
Safet	Y Safary, Relief; Pilot; Power Actuated		10"		
Orifice Size	inch Nominal Inlet Size	inch	Outlet Sizeinch		
			,		
Set Pressure (PSIG)	1165	d Temperature	585		
Stamped Capacity _	905739 Ibs/hr @3				
Jumpou Capacity _	Sat Steam 2350	Overpressure L	975		
Hydrostatic Test (PS)	G) Inlet	_ Outlet	ible to valves for closed systems only		
ressure-Retaining Pi	eces .	(Applica	ioje to AsiAez for closed sAziewiż out		
•	Serial No. or .		Material Specification		
	Identification	i	Incl. Type or Grade		
Body	11.12.8 sn 1	SA 352 L	r B		
•	14.32.8 sn 1	SA 352 L			
onnet or Yoke	13:24:0-211-1-	3/7 330 6	.00		
upport Rods	AJW 011 ·	SA 350 L	F2		
lozde	53.04.8 2B	SA 350 C			
isc .	26.30.95-44	45 Cr Mc			
pring Washers	AFU 123 AME 004				
djusting Screw	AFO 123 AME 004 AJE 048		SA 182 F 316 A 564-74 type 630 cond. H1100		
pindle	AJE 040 .	A 504-74			
pring					
olting ·	AYE/ANY/AVS/ALR/	SA 193-B	17/SA 194-7/SA 194-2H		
THE PROPERTY	AWZ/AMR/AJM/AJL/AJJ				
Liner	.54.18.8 sn 1	SA 351 C			
Cover	53.28.8 sn 10 · ·	SA 351 C	.F8M		
Vent. Pipe	AKE 059 .	SA 105			
Flanges	AKF 019 AFV 105	SA 105			

1645 mm (64.76) "

. (10/77)

This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Max. outside length valve

^{*} Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" × 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)

000000000000000000000000000000000000000					
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, Addendasum_175,					
Code Case No. N.A. (Date)					
a RI at 25 - C Dikkows & Co. NV					
Date 81-06-25 Signed G. Dikkers & CO NV by STATIONS OF THE CONTROL					
Our ASME Certificate of Authorization No. 1806 to use the NV					
symbol expires 15t. July 1980 (Date)					
CERTIFICATION OF DESIGN					
Design information on file at General Flectric and Perry 11					
Stress analysis report (Class 1 only) on file atGeneral_Flectric and Percy_[]					
Design specifications certified by' Boyd P. Brooks					
PE State California Reg. No. 13655					
tress report certified by ' Robert L. Weiss					
ress 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 Ohio _ PH and employed by Kemper Ins.					
of long Grove III have inspected the pump, or valve, described in this Data Report on					
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 4-36 1981 A					
Signed Commissions NB 4805					
(Inglector) (Nat'l Bu., State Prov. and No.)					

As required by the Provisions of the ASME Code Section XI NOI-1741 1. Owner: FIRSTENERGY CORP. Date 5-19-9 10 Center Road , Perry, Ohio 44081 Sheet 1 of 2 2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1 10 Center Road , Perry, Ohio 44081 200174847 (Repair Olip, P.O. No., etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road , Perry, Ohio 44081 Authorization No. 33 Expiration Date 09/28/2011 4. Identification of System: NUCLEAR BOILER PROCESS 1821 5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition NAME/SECTION/DIVISIONCLAS WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728 (b) Construction Code used for repairs, modifications, or replacements: 1974 W1975 Edition Addenda (c) ASME Code Section XI applicable for Inservice Inspection: 1889 none Edition Addenda (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989 19 none Addenda none Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Name of Serial No. No. No. No. Piping General YES Name of Component Manufacturer Serial No. No. No. Piping General YES Name of Component Manufacturer Serial No. No. No. Piping General YES Name of Component Manufacturer Serial No. Serial No. No. No. Piping General YES Name of Component Manufacturer Serial No.		NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
2. Plant: Perry Nuclear Power Plant (PNPP) 10 Center Road, Perry, Ohio 44081 200174647 (Repair Org. P.O. No., etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 200174647 (Repair Org. P.O. No., etc.) Type Code Symbol Stamp NR Authorization No. 33 Expiration Date 09/28/2011 4. Identification of System: NUCLEAR BOILER PROCESS 1821 5. (a) Applicable Construction Code: ASME Section III Class 1 NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728 (b) Construction Code used for repairs, modifications, or replacements: 1974 (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, 19 none Addenda none Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No.	Р								
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3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP									
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP									
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP	2.	2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1							
### Authorization No		. 10 Center Road, Perry, Ohio 44081 200174647 (Repair Org. P.O. No., etc.)							
Expiration Date 09/28/2011 4. Identification of System: NUCLEAR BOILER PROCESS 1B21 5. (a) Applicable Construction Code: ASME Section III Class 1	3.	Work Perfo	ormed By: <u>FIRSTE</u> I	NERGY Nuclear Ope	erating Com	ndany PNPP		Type Code Symb	ool Stamp <u>NR</u>
4. Identification of System: NUCLEAR BOILER PROCESS 1B21 5. (a) Applicable Construction Code: ASME Section III Class 1			10 Ce	nter Road, Perry.	Ohio 4408	<u>1</u>	•		
5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728 (b) Construction Code used for repairs, modifications, or replacements: 1974 W 1975 Addenda Code Case(s) (c) ASME Code Section XI applicable for Inservice Inspection: 1989 none Edition Addenda Code Case(s) (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989 none Addenda none Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Manufacturer Serial No. No. District Replacement, or Modification or Modification or Modification or Modification or Modification or Stamped PIPING GENERAL 1B21 64084 1B21F41G 1985 Replacement YES 7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.						•		Expiration Date (09/28/2011
(b) Construction Code used for repairs, modifications, or replacements: 1974	4.	Identification	on of System: NUC	CLEAR BOILER PI	ROCESS 1	IB21 ·			
(b) Construction Code used for repairs, modifications, or replacements: 1974 W 1975 Addenda Code Case(s) (c) ASME Code Section XI applicable for Inservice Inspection: 1989 none Edition Addenda Code Case(s) (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, 19 none Addenda none Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Component Manufacturer Serial No. Board ID. Built Replacement, or Modification of Stamped PIPING GENERAL 1821 64084 1821F41G 1985 Replacement YES 7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.	5.	(a) Applica	ble Construction Co	ode: <u>ASME Section</u> NAME/SECT	ON/DIVISIO	1 N/CLASS		19 <u>74</u> Editi	on
(c) ASME Code Section XI applicable for Inservice Inspection: 1989 19 none Addenda Add		WINTE	R 19 <u>75</u> A	Addenda Code	Case(s) <u>27</u>	72, 1644-4,	1728		
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 19 89 19 none Addenda none Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No. No. 1D. Built Replacement, or Modification or Modification or Modification Stamped PIPING GENERAL 1B21 64084 1B21F41G 1985 Replacement YES 7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.	ı								
19 89 , 19 none Addenda none Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Component Manufacturer Serial No. Board No. Board No. PIPING GENERAL 1B21 64084 1521F41G 1985 Replacement YES PIPING SYSTEM ELECTRIC 1821 64084 1521F41G 1985 Replacement YES							Edi	tion Addenda	
(e) Design Responsibilities FIRSTENERGY CORP. 6. Identification of Components Repaired, Modified, or Replacement Components Name of Component Name of Manufacturer Senial No. No.				•	•	odification, o	or Replac	ements:	
6. Identification of Components Repaired, Modified, or Replacement Components Name of Component				Codi	e Case(s)				
Name of Component Name of Manufacturer Serial No. Nat. Board No. PIPING GENERAL ELECTRIC 1821 64084 1821F41G 1985 Replacement YES 7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.	_							•	
Component Manufacturer Serial No. Board No. Board No. PIPING SYSTEM ELECTRIC 1821 64084 1521F41G 1985 Replacement YES 7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.	ъ. г	Identification	·	,		,			T AC145
7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.					Board			Replacement,	Code
			1	. 1B21	64084	1B21F41G	1985	Replacement	YES
	ſ								
	Ī						,		·
	-	·							
	_L	Doggistics	of Marks PEDI AC	ED 1/A11/E C/N 40	ODEE MUT	L VALVE C	/NI 1600F	2	<u>. </u>
	1.	·	•	ED VALVE S/N 16	IIVV COGU	U ANTAE 2	/N 10085	14.	
8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Norninal Operating Pressure- ☒ Other- ☐	8.								
Pressure 1028 psi Test Temperature 125 degrees F Code Case(s) N/A									

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	. Remarks: <u>INSTALLED 12 STUDS 1-5/8"-8 HT# K745</u> . 12 HYDRA NUTS 1-5/8"-8 HT# 590A.
	6 STUDS 1"-8 HT# 2C05.AND 16 HYDRA NUTS 1"-8 HT# 591A.
_	
_	
_1	O 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.
N	ote: 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, Michael J Tepsick , 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 11
	Date 19 MAY , 20 09 Signed FENOC-PNPP 90 October QC Tech. (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 CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MAY 20, 20 9 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 09 Signed Thomas Little Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)
- 1	·

والمتحاص والمنافية والأنافي أنحام التنظيم والمراجع والمتحاليين والمراجع فينفط مستحية الموادي والموادي والمحاج وللمعا

1B21-415 SHEET 2 OF 2

FORM NV-1 MANUFACTURERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES* (As Required by the Provisions of the ASME Code, Section III, Div. I)

1. Manufactured by G. Dikkers & Co. N.V. flengelo (0) The Nerherlands (Name and Address of Manufactured) 2. Manufactured for PETTY (Name and Address of Manufactured) 3. Location of Installation			
2. Manufactured for Petry I (Name and Address of Purchaser or Owner) 2. Location of Installation (Ngrt1) Petry (Uli 1) (Name and Address) 4. ———————————————————————————————————	1Manufactured by	G. Dikkers & Co. N.V. Her	ngelo (0) The Nerherlands
	2. Manufactured for		gurer/
(CRN)	-	(Name and Address of Purchas	er or Owner!
CRN Clark	3. Location of Installa		
Type Safety Fielt File For Power Accusted Orifice Size 4.84" Nominal Inlet Size 5" outlet Size 10" inch inch inch inch inch inch inch inch	4. (CRN)	G471-6/125.04.04 2	(Nat'l. Brd. Na.) (Year Built)
Orifice Size	(Mc		ng Nos. 160852 (Manufacturers Serial No.)
E Set Pressure (PSIG)1165 Rated Temperature 585F Stamped Capacity 905732 Ibs/hr @ 0 % Overpressure Blowdown (PSIG) 96.3 144 155 144 145 145 145 145 145 145 145 145 145 145 145 145 145	Type Saf		Programma issues and a significant
Stamped Capacity	Orifice Size	4.84" Nominal Inlet Size &	inch Outlet Size Lutt
Stamped Capacity	6. Set Pressure (PSIC	i)	1 Temperature
Hydrostatic Test (PSIG) Inlet	Stamped Capacity	905732 lbs/hr @0_	% Overpressure Blowdown (PSIG) _ 96.3
Serial No. or Identification Material Specification Incl. Type or Grade	Hydrostatic Test (P:	SIG) Inlet _2350	Outlet975
Incl. Type or Grade	7. Pressure Retaining	Pieces	(Applicable to Valves for closed systems only)
Body U3.04 X K2 SA 352 LCB Bonnet or Yoke U4.07 & s/n 4 SA 352 LCB Support Rods Nozzle AEU-029 SA 350 LE2 Disc 55.01 & 1B SA 351 CF3A Spring Washers 211653 s/n 17 45 Cr Mo V 67 Adjusting Screw AEU.048/AFU.086 SA 182 F31h Spindle AEW:032 Spring AJZ, AJR, AXA, AJJ, ALK, Bolting AUY, AMR, AJM, AJL SA 193-B7/SA 194-7/SA 194-2H Other Pieces Liner 58.05 & s/n 5 SA 351 CF3A Vent pipe AEW 008 Flanges - AEV-116/AFV 093 riax. outside diam. valve body: 475 mm (18.70 inch)	•		Material Specification
Bonnet or Yoke		Identification	Incl. Type or Grade
Support Rods Nozzle AEU-029	Body	03.04_8_82	
Support Rods Nozzle AEU-029 SA 350 LE2 Disc 55.01 & 18 SA 351 CF3A Spring Washers 211653 s/n 17 45 Cr Mo V 67 Adjusting Screw AEU-048/AFU 086 SA 182 F31h Spring AUZ, AJR, AKA, AJJ, ALK, Bolting AUY, AMR, AJM, AJL Other Pieces Liner 58.05 & s/n 5 Vent pipe AEW 008 Flanges - AEV-116/AFV 093 riax. outside diam. valve body: 475 mm (18.70 inch)	Bonnet or Yoke	-: 04-07-8-s/a-4	SA 357 ICB
Disc	Support Rods	· _ to the control of	
Spring Washers 211653 s/n 17 45 Cr Mo V 67 Adjusting Screw AEU.048/AFU.086 SA 182 F31b Spindle AEW.032 A 564-74 rype 630 cond. H110 Spring AJZ, AJR, AKA, AJJ, ALR, SA 193-B7/SA 194-7/SA 194-2H Other Pieces Liner 58.05.8 s/n 1 SA 351 CF3A Lover 62.04.8 s/n 5 SA 351 CF8M Vent pipe AFW 008 SA 105 Flanges - AFV-116/AFV 093 SA 105 riax. outside diam. valve body: 475 mm (18.70 inch)	Nozzie	AEU -029	. SA 350 LE2
Adjusting Screw	Disc	55.01.8.13	SA 351 CF3A
Adjusting Screw _AEU_048/AFU_086 SA_182_F31b Spindle AEW_032 A_564-74_rype_630_cand_H110 Sping AJZ, AJR, AKA, AJJ, ALK, Boking AUY, AMR, AJM, AJL SA_193-B7/SA_194-7/SA_194-7H Other Pieces Liner 58_05_8 s/n 1 SA_351_CF3A	Spring Washers	211653_s/n_17_	45 Cr Mo V 67
Spring AJZ, AJR, AKA, AJJ, ALR, — Bolting AUY, AMR, AJM, AJL SA 193-87/SA 194-7/SA 194-7H Other Pieces Liner S8_U5_8_S/n 1 SA 351_CF3A Lover - 62_U4_8_s/n 5 SA 351_CF8M Vent pipe AFW 0U8 Flanges - AFV_L16/AFV 093 riax. outside diam. valve body: 475 mm (18.70 inch)	Adjusting Screw	_AEU.048/AEU.086 .	SA 182 F316
Spring AJZ, AJR, AKA, AJJ, ALR, Bolting AUY, AMR, AJM, AJL SA 193-87/SA 194-7/SA 194-7H Other Pieces Liner 58.05.8.s/n 1 SA 351 CF3A Lover 62.04.8.s/n 5 SA 351 CF8M Vent pipe AFW 008 Flanges AFV-L16/AFV 093 riax. outside diam. valve body: 475 mm (18.70 inch)	Spindle	.AEW:032	A 564-74 type 630 cond. H1100
Bolting AUY, AMR, AJM, AJL SA 193-87/SA 194-7/SA 194-2H Other Pieces Liner S& U5. 8 s/n 1 SA 351 CF3A Lover 62.04.8 s/n 5 SA 351 CF8M Vent pipe AFW 0U8 Flanges AFV-116/AFV 093 riax. outside diam. valve body: 475 mm (18.70 inch)	Spring	.AJZ, AJR, AKA, AJJ, ALR,	
Other Pieces Liner 58.05.8.s/n 1 SA.351.CF3A Lover 62.04.8.s/n 5 SA.351.CF8M Vent pipe AFW 008 SA.105 Flanges - AFV-116/AFV 093 SA.105 riax. outside diam. valve body: 475 mm (18.70 inch)	Balting .	· · · · · · · · · · · · · · · · · · ·	SA 193-87/SA 194-7/SA 194-2H
Cover 62_04_8 s/n 5 SA 351 CF8M Vent pipe AFW 008 SA 105 Flanges - AFV 116/AFV 093 SA 105 riax. outside diam. valve body: 475 mm (18.70 inch)	Other Pieces		
Venr pipe AEW 008 SA 105 Flanges - AFV 116/AFV 093 SA 105 riax. ourside diam. valve body: 475 mm (18.70 inch)	Liner	58_U5_8_s/n·1	SA 351 CF3A
Flanges AFV-116/AFV 093 SA 105	Cover	62_04_8 s/n 5	SA 351 CE8M
Flanges AFV-116/AFV 093 SA 105	Vent pipe	AEW 008	SA 105
	Flanges	AFV-L16/AFV 093	
	Alma annasta		475 410 70 113
			4/5 mm (18./0 inch)

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This form (E00042) may be obtained from the Order Dept., ASME, 345 E, 47 St., New York, N.Y. 10017

^{*} 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.

מואטן האשל שלים האשלים

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

. Communication
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. 176 (Date)
Date 10-11-78 Signed G. Dikkers & Co. N.V. by W.M. Willems
Our ASME Certificate of Authorization No. 1806 to use the NV (NV)
symbol expires 1st July, 1980

CERTIFICATION OF DESIGN
Design information on file at Ceneral Electric and Perry Stress analysis report (Class 1 only) on file at General Electric and Perry
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. M14921/62-25749 ! 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 . _Ohio__ and employed by ___Kemper_Ins. of Long Grove, Ill. ____ have inspected the pump, or valve, described in this Data Report on .__10-11 ., 13.8..., 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. (Nat't, Bd., State Prov. and No.) Signed Commissions

......

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI PNPP No. 9308 Rev. 9/11/00 NQI-1741							
1. Owner		•	44081	-		Sheet 1 of	
	10 Center Road, Perry, Ohio 44081 Sheet 1 of 2						
2. Plant							
_							
3 Work Porfo	rmed By: _FIRSTE	JEPGY Mudaar Oos	oratina Com	Nany PNPP		Type Code Symb	ol Stamp NR
o. Work renor		nter Road, Perry,				Authorization No.	
	<u></u>					Expiration Date 0	
4. Identification	n of System: <u>NUC</u>	LEAR BOILER PE	ROCESS 1	1B21			
5. (a) Applicab	le Construction Co	de: ASME Sectior	n III Class	1		1974 Editio	on
		NAME/SECT	OISIVIDVOI	N/CLASS			
WINTE	<u>75</u> 19 75 A	Addenda Code :	Case(s) <u>21</u>	7 <u>2, 1644-4.</u>	<u> 1728 </u>		
(b) Constru	ction Code used fo	or repairs, modifica	ations, or re	eplacement	s: 1974	W 1975 [.]	none
					Edi	tion Addenda	Code Case(s)
(C) ASME	Code Section XI ap	plicable for inservi	ice inspeci	Jon.	<u>1989</u> Edi	none tion Addenda	none Code Case(s)
	ole Edition of Section		•	odification, o	or Replac	ements:	
	19 <u>none</u>	Code	e Case(s)				
–	Responsibilities <u>FI</u> n of Components R			comont Con	nononte		
	· · · · · · · · · · · · · · · · · · ·		Nat.		·	Repair,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other ID.	Year Built	Replacement, or Modification	Code Stamped
PIPING SYSTEM:	GENERAL ELECTRIC	1B21	64084	1B21F51A	1985	Replacement	YES
7. Description	7. Description of Work: REPLACED VALVE S/N 160878 WITH VALVE S/N 160853.						
SEE REMA	SEE REMARKS.						
	B. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐						
Pressure 10	Pressure 1028 psi Test Temperature 125 degrees F Code Case(s) N/A						

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMEN PNPP No. 9308 Rev. 9/11/00	TS (Back)
9. Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590/	Α,
16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.	
10 3 1 0 3 1 -0 11 # 2003, AND 10 ATDRA NOTS 1 -0 AT# 39 1A.	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PAR	T 3 SECTION
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEE	N RECEIVED
TO BEING IN EXTERNATION OF THE SOUND FOR THE STATE OF THE SOUND FOR THE STATE OF THE SOUND FOR THE STATE OF T	TTEOLITED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, ske drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 thro	
report is included on each sheet, and (3) each sheet is numbered and the number of sheet	
the front of this form.	·
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in the statement of the st	this report are
correct and the repair, modification or replacement of the items described above conforms to Section X Code and to the National Board Inspection Code "NR" rules.	(I of the ASME
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sep	<u>t.</u> 20 <u>11</u>
	C Tech.
(name of repair organization) (authorized representative)	(title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas G. Laps,holding a valid commission issued by The National Boa	ard of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIC	<u> </u>
and employed by HSB CT. of Hartford, Conn.	have
inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and	state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in ac	cordance 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 sh	nall 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 69 Signed Thomas House Commissions NB 9330 "N" "I" "A" ((Inspector) (National Board (Include	e endorsements),
and jurisdiction,	and no.)

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11521-716 SHEEL 2 OF Z

FORM NV-1 MANUFACTURERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES* (As Regulred by the Provisions of the ASME Code, Section III, Div. I)

	Manufactured by	C. Dikkers & Co. N.V. He	ngelo (0) The Netherlands
	Ger	neral: Electric San Jose C	alif
	2. Manufactured for Oct	(Name and Address of Purcha	
7.	3. Location of Installation		Perry I
	4	G471-6/125,04,04	25 1978
	(CRN)	(Drawing No.)	(Nat'l, Brd. No.) (Year Built)
	5 Valve (Model I		ying Nos. 160853 [Manufacturers' Serial No.)
	Type "Salety, S	Safety/relief	
	Orifice Size'	4.84" Nominal Inlat Size	inch Outlet Size10"
	6. Set Pressure (PSIG)	1180	ed Temperature585 *F
	Stamped Capacity .	917253 - Ibs/hr @g. y.3	% Overpressure Blowdown (PSIG)
	Hydrostatic Test (PSIG)	(/) 120 475	Outlet975
3	7. Pressure Retaining Piec		Outlet(Applicable to valves for closed systems only)
4	77 Trossore Hotelming Fipe	Serial No. or	. Material Specification
	·	Identification	Incl: Type or Grade
,	Body .	- 10-44-7-s/n. 2-	-SA-352-LCB
•	Bonnet or Yoke	03-24-8-6/0-1	
	· ·		
	Nozzle -	AEU 025	
	Disc	- 55.52.7 s/n-1A	SA 351-CF3A
	Spring Washers .	21.1653. s/n 14	45 Cr-Ho.V 67
	Adjusting Screw	AFU 054 + 003	
	Spindle	AEW 017	
			A- 564-74 Eype 630 cond. H1100
	Spring		
	Bolting	AUP, AJR, AKA, AJJ, ALR,	AUY, SA 193-B7/SA 194-7/SA 194-2H
. J	Other Piccos	AHR, AJM, AJL	and and the contract of the co
	Liner · ····	55.13.8 s/n 2	SA -351 CF3A
	Cover	- 62.04.8 s/n}l · · · · · · ·	
	- -		
	Venr pipe		
	Flanges · ·	AFY U70 + 003	- ····································
25	•		
¥	* Max. ourside di	am. valve body:	476 mm (18.74 inch)
	Max. ourside le	•	1642 num (64.65 inch)
	"" Ontarde te	MOLII FALVE .	TOAT tint (OA.O.) THEH?

This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

(1/76)

[•] Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" × 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 conforms to t	
Date 10-11-78 Signed <u>G. Dikkers & Co. N.Y.</u> by W.M. Willems Our ASME Certificate of Authorization No. 1806 to use the symbol expires <u>Ist July, 1980</u>	
CERTIFICATION OF DESIGN	

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 cartified by! Boyd P. Brooks	. [
PE State California Reg. No. 13655	. {
Stress report certified by Robert L. Weiss	.
PE State California/Illinois Reg. NoM14921/62-25749	.
Signature not required—list name only.	

CERTIFICATE OF SHOP INSPECTION
t, 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 Insumo of Lone Grove, Ill. have inspected the pump, or valve, described in this Data Report on 19-11. 19. 78, 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 10-11-19-18
Date 14-14

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS							
As required by the Provisions of the ASME Code Section XI PNPP No. 9308 Rev. 9/11/00 NQI-1741							
1. Owner: FIRST	1. Owner: FIRSTENERGY CORP. Date 5-19-9						
10 Center R	10 Center Road, Perry, Ohio 44081					2	
Plant: Perry Nuclear Power Plant (PNPP) Unit 1							
10 Center R	oad, Perry, Ohio 4	4081	 .		200174645 (Repair Org. P.O. N	o., etc.)	
3. Work Performed By: <u>FIRSTER</u>					Type Code Symb		
10 Ce	nter Road, Perry,	Onio 4408	<u>1</u>		Authorization No.		
					Expiration Date 0	19/20/2011	
4. Identification of System: <u>NUC</u>	LEAR BOILER PI	ROCESS 1	IB21				
5. (a) Applicable Construction Co	de: ASME Section	III Class	1 N/CLASS		,19 <u>74</u> Editio	on	
<u>WINTER</u> 19 <u>75</u> A			72, 1644-4.	1728			
(b) Construction Code used for	or repairs, modifica	itions, or re	eplacement		W 1975 _ Addenda	none Codé Case(s)	
(c) ASME Code Section XI ap	nlicable for Inservi	ice Inspect	ion:	1989		none	
		·		Edi	ition Addenda	Code Case(s)	
(d) Applicable Edition of Section		•	odification, o	or Replac	ements:		
19 <u>89</u> 19 <u>none</u>	Code	e Case(s)					
(e) Design Responsibilities F	•				•		
6. Identification of Components F						ASME	
Name of Name of Component Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	Code Stamped	
PIPING GENERAL SYSTEM ELECTRIC	1B21	64084	1B21F41A	1985	Replacement	YES	
						· ·	
							
·	<u></u>					 	
<u> </u>							
	7. Description of Work: REPLACED VALVE S/N 160900 WITH VALVE S/N 160884.						
SEE REMARKS.			la sala - LO :				
8. Test Conducted: Hydrostatic			•	-	. —	er- 🗌	
Pressure 1028 psi Te	st Temperature 12	<u> 23</u>	legrees F	0008	Case(s) N/A		

PN	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQI-1741
9.	Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# 0G84, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,
16	5 STUDS 1"-8 HT# 2C05.AND 16 HYDRA NUTS 1"-8 HT# 591A.
N	O 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.
No	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 on the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, Michael J Tepsick, 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 11.
	Date 19 MAY 20 09 Signed FENOC-PNPP Start OC Tech. (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 CT of Hartford, Conn. have
	inspected the repair; modification or replacement described in this report on May 20, 20 09 and state that to
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
1	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 MAY 20 20 99 Signed howey Lon Commissions NB 9330 "N" "!" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

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1B21-417 SHEET 2 OF 2

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· . ·	•		
		٠ ٦	%Corrected report
	- 1	1	•
	:		or safety and safety relief valves.
, As	Required by	the Provisions of the A	SME Code, Section III, Div. I
	<u></u>		
1. Manufactured by	G. Dikker	s & Co. NV. Heny	elo (0) The Netherlands
·		Tectric, San Jus	
2. Manufeatured for		and address of Further	or or Charters
I Location of texcalation	Perry 1+1	T spares North Un	10
	G 471-6/1	125.04.0371-6V.08	
4		Drawing No.)	(Nort Brd Nota DD) (Year Bulk)
5 Value	D47 T	ldoniii.d	DO NOT.
. (constant Pa	Safety/Re	elief	IN Cortificate Hatdor's Berlis No.)
Type Below &	com baset Pilot	Power Actuated	8* (Flanges) 10*
Orifico Stop	N	esiR telni lanimo	Outlet Sira
bac.	.		inch · Esch ·
0 F. D			
B. Set Preceives (FSIG)			d Temperature 95,62
Stismped Copacity	905732 Bot Brosen	_ ibe/hr @ 2350	.% Overpressure Blowdown [PSIB] 95,67
Hydrosastic Test (PSSS)			Outlet (Logitories to values for closed systems carty)
7. Pressure Receiving Place	· ·		
		Serial No. or	Manual Specification
6		ವಣಬೆಗೆದಾರಾಗ	bick Type or Grader
Body F	17,25.8 s/	1 3	SA 352 LCB
Bonnet or Yolu _	08.41.8 s/r	- 3	SA 352 LCB
Buppon Reds			
Rouris	AJW 080		SA 350 LF2
Diac _	55.08.9 5/1	h 2A	SA 351 CF3A
		. • •- • • • • •	45 Cr Ho V 67
	.26-30-95.5. .ASB 109/ .A		SA 182 F 316
	APG -027		A 564-74 type 630 cond. H1100
Spring _			
	ANY/ANZ/AV	SZAJSZAPAZAPBZANZ	SA 193-87/SA 194-7/SA 194-2H
	CAL/ALR/AU		SA 351 CF3A-
THYO: """ " '	53.40.8 s/s		" 5A 351 CF8H
	55.23.8 s/s	n 3	- SA-105
	-AWB: 007		SA 105
	ASA 013/AS		The Comment of the same of the
Max. outside d	iam. valve	body: 477 mm (18	.78)
63		:	•
Max. outside l	ength yalva	: 1644 mm. (64.73)
	• ·=·•	1	
•		:	
		. •	
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* Supplemental shoots in i	form of lists, sk	or drawings may	be used provided (1) size is 8-1/2" × 11", (2) information
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* Supplemental phoes in in home 1-2 on this Dat recorded at top of this fo	a Report is incl	orches or drawings may bedse on each sheet, an	be used provided (1) size is $B-1/Z' \times 11''$, (2) information d (3) each sheet is numbered and number of sheets is
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in home 1-2 on this Det	a Report is incl	olches or drawings may uded on each sheet, an	be used provided (1) size in 8-1/2" \times 11", (2) information d (3) each sheet is numbered and number of sheets is
in home 1-2 on this Det	a Report is incl	oches or drawings may uded on each sheet, an	be used provided (1) size in $8\cdot 167 \times 11^-$, (2) information d (2) each sheet is numbered and number of sheets is
in home 1-2 on this Det	ts Report is incl orm.	bided on each sheet, an	be used provided (1) size is 8-1/2" x 11", (2) information d (3) each sheet is numbered and number of sheets is the Order Dept., ASME, 345 E, 47th St., New York, N.Y., 10017

FORM NV-1 (Beck) CERTIFICATE OF COMPLIANCE We conity that the statement, made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Ptent Components, Section III, Div. 1., 1974 Edition, Addends Sum. 176 Code Cose No. N.A. Date 81-07-03 Signed G. Dikkers & CO NV IN Continuate Molders Our ASME Certificate of Authorization No. 1806 lst. July 1980 ander loguite (Deta) CERTIFICATION OF DESIGN Design information on file at _____ | General Electric and Perry I+II spaces
Stress enalysis report (Class 1 only) on file at ____ Ceneral Electric and Perry I+II spaces Design specifications certified by PE State Call fornia Boyd P. Brooks 13655 Strake report certified by California/Illinois N 14921/62-25749 Signatura not required—list name only. CERTIFICATE OF SHOP INSPECTION have inspected the pump, or valve, described in this Date 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. By signing this certificate, neither the inspector nor his amployer makes any warrant, expressed or implied, concerning the equipment degraced in this Data Report Furthermora, halibal the Inspector nor his employer shall be liable in any אים אים אים erry damage or a loss of any kind arising from or connected with this inspection Signed

NIS-2/1		R'S REPOR'				REPLACEM!	ENTS	
PNPP No. 9308 Rev							NQI-1741	
1. Owner:	FIRST	ENERGY CORP.		·		Date5-19	<u>)-9</u>	
	10 Center R	oad, Perry Ohio	44081			Sheet 1 of	2	
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1								
	10 Center Road, Perry, Ohio 44081 200174649 (Repair Org. P.O. No., etc.)							
3. Work Perform	ned By: <u>FIRSTEN</u>	VERGY Nuclear Ope	eratina Com	pany PNPP		Type Code Symb	ool Stamp <u>NR</u>	
-	10 Ce	nter Road, Perry, (Ohio 4408	1		Authorization No.	33	
						Expiration Date (09/28/2011	
4. Identification	of System: <u>NUC</u>	LEAR BOILER PE	ROCESS 1	B21		· · · · · · · · · · · · · · · · · · ·		
5. (a) Applicable	Construction Co	de: ASME Section	n III Class	1 N/CLASS		19 <u>74</u> Editio	on .	
		Addenda Code		•	1728			
	·						·	
(b) Construct	tion Code used fo	r repairs, modifica	tions, or re	eplacement		W 1975	none Code Case(s)	
(c) ASME Co	ode Section XI ap	plicable for Inservi	ce Inspect	ion:	1989		none Code Case(s)	
(d) Applicable	e Edition of Section	on XI Utilized for R	epairs, Mo	odification, o			Code Case(s)	
		Addenda <u>non</u>	e		•			
(e) Design R	esponsibilities FI	Code RSTENERGY CO	e Case(s) RP.				}	
		epaired, Modified,		ement Corr	ponents		ľ	
Name of . Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code	
			No.			or Modification	Stamped	
	GENERAL ELECTRIC	1B21 .	64084	1821F47G	1985	Replacement	YES	
								
					•	,.		
7. Description of	Work: REPLACE	ED VALVE S/N 16	0872 WIT	H VALVE S	/N 16089	3.		
SEE REMAP	RKS.			<u> </u>	·		· .	
8. Test Conducte	ed: Hydrostatic-	- 🗌 Pneumat	ic- 🔲 N	lominal Ope	erating Pi	ressure- 🛭 Oth	er- 🗌	
Pressure 102	Pressure 1028 psi Test Temperature 125 degrees F Code Case(s) N/A							

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
9.	Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A.
1	6 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.
'	0310031-0 H1#2C03,AND 10 H1DAA NOTS 1-0 H1#391A.
_	
1	IO 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.
N	ote: 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, Michael J Tepsick, 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 11
	Date 19 MAY , 20 09 Signed FENOC-PNPP Mod QC Tech. (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 ofOHIO
İ	and employed by HSB_CT. of Hartford, Conn. have
١	inspected the repair, modification or replacement described in this report on MAy 37, 20 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 5/27, 20 09 Signed This way of Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)
- [

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1B21-418 SHEET 2 OF 2

AS Required by the Provisions of the ASME Code, Section III, Div. 1 MEH 10 854

. Manufactured by	G. Dikkers & Co. K.V. Hennel	o (o) The Tetherlands
	(Name and Address of N Certific Ceneral Electric San José Ca	
Manufactured for	(Name and Address of Purchase	r or Owner)
Location of Installati	on Perry I + II spares North l'e	rry Olijo
NIA	(Name and Address)	151
(CXN)	(Drawing No.)	(Nat'L Brd. No.) (Year Built)
Valve	C471 Identifyir	ng Nos. 10(1893 (N Certificate Holder's Serial No.)
~	sufusy/soliot	In Certificate Holder 2 Serial 1901)
2-216	ty, Safety Relief; Pilot; Power Actuated	
Orifica Siza	4.84" Nominal Inlet Size 8"(F	inch Outlet Size 10"
	:	HKAI
Set Pressure (PSIG)	1130 Bated	Temperature 585
Stamped Capacity:	· 917253 bs/br @ 3	% Overpressure Blowdown (PSIG) 42-35
••	Sec 24eau	
Hydrostatic Test (PS		Outlet (Applicable to valves for closed systems only)
Proceure Retaining P		
	Serial No. or	Material Specification
	Identification	, Incl. Type or Grade
	05.10.0	257 700
Body .	05.19.8 s/n 5	SA 352 LCB
Bonnjet or Yoke	12.29.8 s/n 2	SA_352_LCB
Support Rods	4.71. 110	01 250 752
Nozde '	<u> </u>	SA 350 LF2 SA 351 CF3A
<u></u> Oisc	60.07.9 s/n 2E	45 Cr No V 67
asheaW gri	26.30.95 s/n 153	SA 182 F316
್ಷರೈusting Screw ∶	ASB 081/ASB 009 CAD 010	
Spindle	CAD UIO	Λ 564-74 type 630 cond. H1100
Spring		
Bolting	ARY/ANZ/AVS/AJS/APA/APB/ANZ	SA 193-B7/SA 194-7/SA 194-211
Other Pieces		
		
<u>iner</u>	63.(14.(19 s/n l	SN 351 CF3A
over	53.38.8 s/n l	SA 351 CFAN
ent pipe	AVB 046	SA 105
langes	ASA 224/ASA 213	SA 105
	iam. valve body: 478 mm.(43.8	
der meresias I	Smith colon . 1660 166 0	υ \

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" × 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.

(10/77)

This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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 1974 Edition, Addenda Stun, 176, Code Case No. NA (Date) Date 191014 Signed C. Dikkers & Co. N. V. by It Howe Our ASME Certificate of Authorization No. 1806 to use the NY	
symbol expires Ise July, 1980 (NV)	
CERTIFICATION OF DESIGN	
Design information on file at General Electric and Perry I + II spares Stress analysis report (Class 1 only) on file at Ceneral Electric and Perry I + II spares	
Design specifications certified by Boyd P. Brooks PE State California Reg. No. 13655 Stress report certified by Kobert L. Weiss	
PE State California/Illinois Reg. No. M14921/62-25749	
Signature not required—fist name only.	
	•
CERTIFICATE OF SHOP INSPECTION	•
t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontatio (Canada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on	
17 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.	5
Date 19 19 19 19 19 19 19 19 19 19 19 19 19	Contract of the second

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	. Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,
-	16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.
-	
1	O 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.
	ote: 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, Michael J Tepsick, 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 11
	Date 19 MAY 20 09 Signed FENOC-PNPP Pull Bill QC Tech.
	(name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	1, 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
	inspected the repair, modification or replacement described in this report on MAY 20, 20 02 and state that to
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Ì	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 09 Signed Intruce Long Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)
- [

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1B21-419 SHERT 2012

FORM NV-1 MANUFACTURERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES' (As Required by the Provisions of the ASME Code, Section III, Div. I)

I. Manufactured by	C. Dikkers & Co. N.V. Hengelo	(i) The Metherlands
2. Manufactured for	General Clectic Chambicuren	
	Name and topics plandes or	l'ine Thin
3. Location of Installation	(Name and Address)	101
4	C471-6/125.04.04 3	11470
(CHN) 5. Valve		Natt Biz No 61 (Year Built)
(Model	No., Series No.)	(Manufacturers: Serial No.)
	Salety Relief Prior Power Acquired	,
Ontice Size	4.84" Nominal Inlet Size 8"	Outlet Size 10" inch
• •		1001
S. Set Pressure (PSIG)	-1190 Rated Ten	mperature 585 F
Stamped Capacity	Sk Steam 0 - 12 - % C	Overpressure Blowdown (PSIG) 113,6
Hydrostatic Test (PSIG	I Intel 2350 . O	Outlet (Applicable to valves for closed systems only)
7. Pressure Retaining Pie		•
	Serial No. or Identification	Material Specification Incl. Type or Grade
-		
Body	12.477 R.2	SA 352 LOB
Bannet or Yoke	_00 24.0 s.n.2	SA 352 LOB -
S upport Rods	WELL OF	
Nazzle	HEU OOI	SA 350 LF2 ·
Disc	53.04.B 3B	SA 351 CF3A
Spring Washers	AME CUZ AME 016	45 Cr Ho V 67
Adjusting Screw	THE OAS HILL OLD	SA 182 F316 '
Spindle	TITEM DOD	A 564-74 type 630 cond. H1100
S pring Bolting	DUT/AJR/ANA/AJJ.	
Other Pieces	ALE/AUY/AMR/AJL/	SA 193~87∱SA 194-7/SA 194-2H
	53_16.8 3,0.2	
Liner	-52.50.7 S.O. 8	SA 351 CF3A
Cover	AUE 03	SA 351 CF8M
Vent pipe	AFV 023 AFV 070	SA 105 .
Flam As	7.9	SA 105 • ·
Mar. outsid	le diam. value body	: 479 mm (10,05
_		, ·
Mark outsic	de length value	: 16 y o mm (Ly dot
	5	: 16 4 0 mm (64,00"
	RECEIVED	
J	AN 11. 1979	
,,		•
P	NPP-SO/DC	

[•] Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" \ 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.

(1776)

This form [E00042] may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

6742/672C

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. 176. Code Case No.

Date S&11.1978 Signed G. Dikkers & Co. N.V.

w W. W. Willems

Our ASME Certificate of Authorization No.

to use the NV (NV) 1806

lst July, 1980 symbol expires

CERTIFICATION OF DESIGN

General Electric and ... Lerry Design information on file at Stress analysis report (Class 1 only) on file at General Electric and

Design specifications certified by! Boyd P. Brooks

California/Illinois

PE State California

13655.

Stress report certified by

PE State

Robert L. Weiss

Rea. No.

M14921/62-25749

Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Kemper JUZ and employed by hong Grove have inspected the pump, or valve, described in this Data Report on . 19 7.0°, 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 ne 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 20 Moy. Signed

Commissions

NB 4450 (Nat'l Bd., State Prov. and No.)"

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI							
PNPP No. 9308		quiled by the Prov	ISIONS OF U) i	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date5-19)- <u>9</u>
-	10 Center F	Road, Perry Ohio	44081	·		Sheet 1 of	2
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1							
-	10 Center F	Road, Perry, Ohio 4	14081			200174652 (Repair Org. P.O. Λ	
3 Work Per	formed By: _FIRSTE	NEPGY Nuclear On	erating Con	nany PMPP		Type Code Symb	ol Stamp NR
o. Work i ci	,	enter Road, Perry,	,			Authorization No.	
					•	Expiration Date (1
4. Identificat	on of System: <u>NU</u>	CLEAR BOILER P	ROC <u>ESS</u>	1B21			
	able Construction Co					19 <u>74</u> Editi	nn
		NAME/SECT	TON/DIVISIO	N/CLASS			
<u>WINT</u>	ER 19 75	Addenda Code	Case(s) <u>2</u>	72, 1644-4,	1728		
(h) Consi	ruction Code used for	or repairs modifica	ations or re	anlacement:	s· 1974	W 1975	none
(0) 001131	ruction code, used n	repairs, modifice	100113, 01 1	spiacerreri.		tion Addenda	Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	1989 Edi	none tion Addenda	none Code Case(s)
(d) Applic	able Edition of Secti	on XI Utilized for F	Repairs, Mo	odification, o	or Replac	ements:	
19 <u>89</u>	19 <u>none</u>		ne e Case(s)				
(e) Desig	n Responsibilities <u>Ė</u>						
6. Identificati	on of Components F	Repaired, Modified	, or Replac	ement Com	ponents		·
Name of Componen	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
-	Maridiacture	Jenarivo.	No.			or Modification	Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1821	64084	1B21F51G	1985	Replacement	YES
•							
			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
			<u> </u>				
						<u> </u>	
	n of Work: <u>REPLAC</u>	EU VALVE S/N 16	50899 WIT	H VALVE S	<u>IN 16087</u>	'б. '	
SEE REI	ucted: Hydrostatic	- 📗 Pneuma	fic- 🗍 1	Vominal On	erating P	ressure- 🛭 Oth	er- 🗍
•	1028 psi Te			legrees F	_	Case(s) N/A	·

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,
1	6 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.
	·
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
<u>1.</u>	8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: 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, Michael J Tepsick, 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 11
	Date 19 MAY , 20 09 Signed FENOC-PNPP MM/ TM QC Tech. (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
1	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 CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MAYJO, 20 (C) 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 69 Signed The way Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)
- 1	

Har the man with with the control of
1821-420 SHERT 2 OF 2

JRM 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. I

. Manufactured by	G. Dikkers & Co. NV. Hengelo	
Manufactured for	General Electric, San Jose,	California .
Location of Installation	Perry II North Perry Unio	r Owner)
	G 471-6/125.04.03 rev. 6	77 1979 (Nat'l. Brd. No.) 0.77 (Year Built)
(CRN)	(Dec. dec Mark	(Nat'l. Brd. No.) 160876 (Year Built)
Type	Satety/Reliet	Nos
	Safety Relief; Pilot; Power Aduated	
	inch Nominal Inlet Size 8"	inch Outlet Size 10" inch
Set Pressure (PSIG)	1180 Rated T	emperature585
Stamped Capacity _	917253 Ibs/hr @ _ 3 _ %	Overpressure Blowdown (PSIG) . 445
Hydrostatic Test (PSIC	5) Inlet	Outlet 975
Pressure Retaining Pie		Outlet 975 (Applicable to valves for closed systems only)
	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	15.15.8-2	CV 325 1 LB
Bonnet or Yoke	16.06.8-2	3A 3B2 LCB
Support Rods		
Nozzle	AJW 031 · · ·	SA 350 LF2
Disc	<u>57.29.8 2B</u>	SA 351 CF3A
Spring Washers	26.30.95-70	45 Cr Mo: V 67
Adjusting Screw	AFU 109 AME 007	SA 182 F 316
Spindle .	AJE 044	A-564-74 type 630 cond. H1100
Spring .		
Balting	ANY/AYE/AVS/AJK/AWZ/AJJ	SA_193-B7/SA_194-7/SA_194-2H
OthersRiecex	_AJS/APA/AJL	
liner	55.31.8-1	SA 351 CF3A
4 HEE	5.8.04.8-6	SA 351_C.E8M
Cover	2.0.04.0-0	
	AKE 040	SA 10.5

Max. cutside length valve 1640 mm (64,57)"

(10/77)

This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

[•] Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" × 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 81-06-25 Signed 6- Dikkers & CO NV by 11000
Our ASME Certificate of Authorization No. 1806 to use the NV
symbol expires <u>1st. July 1980</u> . (Date)
CERTIFICATION OF DESIGN
Design information on file at General Flectric and Perry II Stress analysis report (Class 1 only) on file at General Flectric 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 72 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 1981:
Signed Commissions NB 4805 [Inspector] Institute Prov. and No.)

As required by the Provisions of the ASME Code Section XI PNPP No. 9308 Rev. 9/11/00 As required by the Provisions of the ASME Code Section XI NQI-174* 1. Owner: FIRSTENERGY CORP. Date 5-19-9								
1. Owner: FIRSTENERGY CORP. Date 5-19-9	1							
10 Center Road, Perry Ohio 44081 Sheet 1 of 2								
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1	l							
10 Center Road, Perry, Ohio 44081 200174648 (Repair Org. P.O. No., etc.)								
Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp	<u>√R</u>							
10 Center Road, Perry, Ohio 44081 Authorization No. 33								
Expiration Date <u>09/28/201</u>	1							
4. Identification of System: NUCLEAR BOILER PROCESS 1B21	_							
5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition NAME/SECTION/DIVISION/CLASS								
WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728	_							
	_							
(b) Construction Code used for repairs, modifications, or replacements: 1974 W 1975 none Edition Addenda Code Cast	<u></u>							
(c) ASME Code Section XI applicable for Inservice Inspection: 1989 none none Edition Addenda Code Cast	_							
(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:	·							
19 <u>89</u> 19 <u>none</u> Addenda <u>none</u>								
Code Case(s) (e) Design Responsibilities FIRSTENERGY CORP.	ı							
6. Identification of Components Repaired, Modified, or Replacement Components	ļ							
Name of Name of Manufacturer Nat. Other Year Repair, ASME Board ID. Built Replacement, Code No. Or Modification Stamped								
PIPING GENERAL 1B21 64084 1B21F47C 1985 Replacement YES SYSTEM ELECTRIC								
	1							
	1 1							
	1							
7. Description of Work: REPLACED VALVE S/N 160895 WITH VALVE S/N 160854.	_							
SEE REMARKS.	_							
8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-								
Pressure 1028 psi Test Temperature 125 degrees F Code Case(s) N/A								

ρ.	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOL-1741
9	. Remarks: <u>INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A.</u>
-	6 STUDS 1"-8 HT# 2C05.AND 16 HYDRA NUTS 1"-8 HT# 591A.
_	
1	O 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.
Ν	ote: 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.
	I, Michael J Tepsick, 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 11
	Date 19 MAY , 20 09 Signed FENOC-PNPP MM QC Tech. (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	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 OHIO
	and employed by HSB CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MN 20, 20 09 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 04 Signed Thomas Account Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)
-	

1821-421 SHEET 2 OF 2

mr 6743/6725 19

FORM NV-1 MANUFACTURERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES' (As Required by the Provisions of the ASME Code, Section III, Div. I)

G. Dikkers & Co. N.V. He	ingelo (O) The Nerherlands
Perry I	
(Name and Address of Purchas	ser or Owner) .
on NOITH Perry, Uhito (Name and Address)	•
- G471-6/125.04.04	26 1978
(Drawing No.)	(Nat'l. Brd. No.) (Year Built)
el No., Series No.)	ring Nos. 160854 (Manufacturers' Scrial No.)
safety/relief y, Salety Relief; Pilot; Power Actuated	
inch 4 84". Nominal Inlet Size	හ්" Outlet Size 10" inch
1180 Bata	ed Temperature 585 F
	% Overpressure Blowdown (PSIG) 97.9
Sat Steam	A Overbressare promoting training 37.53
G) Inlet _ 2350 .	Outlet 475
eces	(Applicable to valves for closed systems only)
Serial No. or	Material Specification
Identification '	Incl. Type or Grade
12_04.8_s/p 1	SA 352 LCB
•	SA 352 LCB
	-
AEU_037	SA 350 LF2
	• * * * * * * * * * * * * * * * * * * *
-55_01_8_s/n 1A	SA 351 -CF3A
55_01_8_s/n 1A 211653_s/n 12.	SA 351 -CF3A 45 Cr No V 67
55_01_8_s/n 1A 211653_s/n 12 . AFU_131/AFU_094	SA 351 -CF3A 45 Cr Mo V 67 SA 162 F316
—55_01_8_s/n 1A —211653_s/n 12 —AFU_131/AFU_094 —AEW_034_	SA 351 CF3A 45 Cr Mo V 67 SA 162 F316 A 564-74 type 630 cond, H110
55_01_8_s/n 1A 211653_s/n 12 . AFU_131/AFU_094 AEW_034	SA 351 -CF3A 45 Cr No V 67 SA 162 F316 A 564-74 type 630 cond, H110
55_01_8_s/n 1A 211653_s/n 12. AFU_131/AFU_094 AEW_034 AUPAJR_,-AUK, AJJ, ALK,	SA 351 CF3A 45 Cr Mo V 67 SA 162 F316 A 564-74 type 630 cond, H110
55_01_8_s/n 1A 211653_s/n 12. AFU_131/AFU 094 AEW_034 AUPAJRAUK, AJJ, ALK, AMRAJMAJL	SA 351-CF3A - 45 Cr Mo V 67 SA 162 F316
55_01_8_s/n 1A 211653_s/n 12. AFU_131/AFU_094 AEW_034 	SA 351-CF3A 45 Cr Mo V 67 SA 162 F316
	SA 351-CF3A 45 Cr Mo V 67 SA 162 F316
	SA 351-CF3A - 45 Cr 80 V 67 SA 162 F316 A 564=74 type 630 cond. H110 SA 193-B7/SA 194-7/SA 194-2H SA 351-CF3A SA 351-CF8M SA 105
	SA 351-CF3A 45 Cr Mo V 67 SA 162-F316
	SA 351-CF3A - 45 Cr 80 V 67 SA 162 F316 A 564=74 type 630 cond. H110 SA 193-B7/SA 194-7/SA 194-2H SA 351-CF3A SA 351-CF8M SA 105
	(Name and Address of Manufi Perry I (Name and Address of Purcha on North Perry, Ohio (Name and Address) - G471-6/125.04.04 (Drawing No.) - G471 Identify - Safety / relief y, Safety Relief; Pliot; Power Actuated - 4.84" Nominal Inlet Size - 1180 Rate - 917253 Ibs/hr @ 0 Glinlet 2350 eces Serial No. or Identification - 12.04.8.5/n 3

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" × 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.

MIR 6742/6:---

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that this valor of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., Code Case No.	ve conforms to the rules of construction 1974 Edition, Addenda sum. '7(
Our ASME Certificate of Authorization No. Symbol expires LST July. 1280 (Date)	W.M. Willems 1806 to use the NV (NV)

	•
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 by Boyd P. Brooks PE State California Reg. No. 13655 Stress report certified by Robert L. Weigs	
PE State California/Illinois Reg. No	-
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 Uhio and employed by __Kemper Ins..... of . Long Grove, Ill have inspected the pump, or valve, described in this Data Report on structed 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 be 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 Gatace 78 Commissions

(Nat'L Bd., State Prov. and No.)

1B21-42Z

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI										
PNPP No. 9308	Rev. 9/11/00		·				NQI-1741			
1. Owner.	FIRS	TENERGY CORP.				Date 6-5-	9			
	10 Center F	Sheet 1 of	3							
2. Plant:	Unit 1									
10 Center Road, Perry, Ohio 44081 200357532 (Repair Org. P.O. No., etc.)										
	(Repair Org. P.O. No., etc.)									
3. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Ope	erating Con	npany PNPP		Type Code Symb	ool Stamp <u>NR</u>			
	10 Ce	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No				
						Expiration Date (09/28/2011			
4. Identification	on of System: <u>NU</u>	CLEAR BOILER 1	321	·	·					
5. (a) Applica	ble Construction Co	ode: ASME Section	n III Class	1		19 <u>74</u> Editi	on			
	· : 19 /									
110112	13 /		0430(3) 1			-				
(b) Constr	uction Code used fo	or repairs, modifica	ations, or r	eplacement		none fion Addenda	none Code Case(s)			
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1989 Edi	none tion Addenda	none Code Case(s)			
(d) Applica	able Edition of Secti	on XI Utilized for R	Repairs, Mo	odification,	or Replac	ements:				
19 <u>89</u> ,	19 <u>none</u>									
(e) Design	Responsibilities <u>F</u>		e Case(s) RP.			•				
6. Identification	n of Components F	Repaired, Modified,	or Replac	ement Cor	nponents	•				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped			
VALVE	ATWOOD & MORRILL	7-560	N/A	1B21 F0028C	1976	Replacement	YES			
			<u> </u>							
	<u> </u>				-		<u> </u>			
				<u></u>	<u></u>					
7. Description	of Work: REBUILT	VALVE S/N 7-56	DUSING I	NEW POPP	ET S/N 1	 				
					<u>.</u>)				
8. Test Condu	. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-									
Pressure 1	Pressure 1030 psi Test Temperature 150 degrees F Code Case(s) N/A									
					<u>.</u>					

P	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
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.
N	ote: 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, Michael J Tepsick, 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 11
	Date <u>5 JUNE</u> , 20 <u>09</u> Signed <u>FENOC-PNPP</u> <u>Mul Jul QC Tech.</u> (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 ofOHIO
	and employed by HSB CT. of Hartford, Conn. have
1	inspected the repair, modification or replacement described in this report on \(\frac{\int_Uute \infty}{2} \) 20 \(\frac{\infty}{2} \) and state that to
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
İ	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,
1	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 June , 20 09 Signed Thomas Hope Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)
-	

1821-422 SHERT 2 OF 3

FORM NPV-I MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

Manufactured by Atwood & Morrill	Co.Inc.,Salem,	Mass.01970 ord	er No. 13560-01
(Name	& Address of Manufacturer)		•
Manufactured for General Electric	c Co. San Jose	e.California od	er No. <u>205-AF774</u>
	(Name and Address)		
	.a. — — — — — — — — — — — — — — — — — —		,
Owner <u>Cleveland Elect</u>	ric llimineri	ng co.	
Location of Plant North Perr	y, Onio		
	•		- 2 3
Pump or Valve Identification Walve S/	7 7-550 26"	575# Main Stea	m Isolation Va
For Service	in Main Steam	n Piping System	
(Brief descript	tion of service for which eq	uipment was designed)	
		,	
(2) Drawing No. 13550-01-H Rev. 3	Prepared by Rot	pert J. Knox	
(b) National Board No. N/A	en i kala demata	oli oli serrefine e oli	• .
(b) National Board No. IV/A	ja kar i ili ila saf	.ಕ್ ಸಾಶ್	
Design Conditions 1375	psi58	36_ °F	٠.
(Pressure)	(Temperatu	re)	
			ss <u>l</u>
Edition 1974 , Addenda Date			SS 1
Edition 1974 , Addenda Date	N/A,	Case No. 1622	<u> </u>
Edition 1974 , Addenda Date	N/A ,	Case No. 1622	Remarks
Edition 1974 , Addenda Date	N/A,	Case No. 1622	<u> </u>
Edition 1974 , Addenda Date	N/A ,	Case No. 1622	Remarks
Edition 1974 , Addenda Date	N/A ,	Case No. 1622	Remarks
Edition 1974 , Addenda Date	N/A ,	Case No. 1622	Remarks
Edition 1974 , Addenda Date	N/A ,	Case No. 1622	Remarks
Edition 1974 , Addenda Date	Material Spec. No.	Case No. 1622 Manufacturer Quaker Alloy	Remarks
Edition 1974 , Addenda Date	Material Spec. No.	Case No. 1622 Manufacturer Quaker Alloy	Remarks
Edition 1974 , Addenda Date	Material Spec. No.	Case No. 1622 Manufacturer Quaker Alloy	Remarks
Edition 1974 , Addenda Date	Material Spec. No.	Case No. 1622 Manufacturer Quaker Alloy	Remarks
Edition 1974 , Addenda Date	Material Spee, No.	Case No. 1622 Manufacturer Quaker Alloy	Remarks S/N 7-560
Edition 1974 , Addenda Date	Material Spec. No.	Case No. 1622 Manufacturer Quaker Alloy	Remarks
Edition 1974 , Addenda Date	N/A Material Spec. No. SA216 WCB SA350 Gr. LF-2	Case No. 1622 Manufacturer Quaker Alloy Cann & Saul	Remarks S/N 7-560 S/N 8-560
Edition 1974 , Addenda Date	Material Spee, No.	Case No. 1622 Manufacturer Quaker Alloy Cann & Saul	Remarks S/N 7-560
Edition 1974 , Addenda Date	N/A Material Spec. No. SA216 WCB SA350 Gr. LF-2	Case No. 1622 Manufacturer Quaker Alloy Cann & Saul	Remarks S/N 7-560 S/N 8-560
Edition 1974 , Addenda Date	N/A Material Spec. No. SA216 WCB SA350 Gr. LF-2	Case No. 1622 Manufacturer Quaker Alloy Cann & Saul	Remarks S/N 7-560 S/N 8-560
(a) Castings Body RT# N2675 (b) Forgings Poppet Cover	N/A Material Spec. No. SA216 WCB SA350 Gr. LF-2	Case No. 1622 Manufacturer Quaker Alloy Cann & Saul	Remarks S/N 7-560 S/N 8-560

[&]quot;Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b 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 NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Studs (18)	EA540 Gr.B.23 Class 5	Jos. Dyson&Sons	Heat# 114188
Cover Nuts (18)	EA540 Gr B 23	Jos.Dyson&Sons	Heat#134951
-			
(d) Other Parcs	-		
* 3/4 - Nipples (2)	SAlO6 Gr.B	U.S.Steel	S/N 7-560
* 45 Elbow	SA105	Vogt Mach.Co.	S/N 15-560
* Note: These items comp and workmanship concerned.			
Body Poppet Hydrostatic test 2175 1450 psi		l:	<u> </u>
		2000	•
· · · · · · · · · · · · · · · · · · ·	ERTIFICATION OF I	DESIGN	
Design information on file atGeneral	Electric Co.,	San Jose, Cal:	ifornia
Stress analysis report on file at	& Morrill Co.	Inc., Salem, 1	Mass
Design specifications certified byRanj.i	t_Ranjan_Ghosh	(1) Prof. Eng. State (Talif Reg. No. 16371
Stress analysis report certified by Herbe	ert Cook	(1) Prof. Eng. State 1	1055 Reg. No. 10981
(1) Signature not required. List name only.		•	
We certify that the statements made in this repor	n are correct.	\bigcirc	1
	•	(12 1/2 1/
Date 3-24 19 76 Signed A	twood&Morrill (Manufacturer)	O. In CBY #7/1/1/17	Control Manager
Certificate of Authorization No. N812	expires May 7	1977	VOILLION Manager
•			•
ODDMIN		100 DCM(O)	
· CERTI	FICATE OF SHOP IN	ASPECTION	
I, the undersigned, holding a valid commissi	ion issued by the Natio	onal Board of Boiler and Pr	essure Vessel Inspectors
and/or the State of Province of Massachus	setts and emo	loved by Hartford S	Steam Boiler Inst
of Hartford, Conn.		have inspected the equipme	ent de scribed in this Data
Report on 3-24 19.76, has constructed this equipment in accordance wings signing this certificate, neither the Insping the equipment described in this Data Report, manner for any personal injury or property damages.	th the applicable Subsector nor his employer. Furthermore, neither	makes any warranty, expre the Inspector nor his emplo	rion III. ssed or implied, concern- yer shall be liable in any
		•	Tennal
Date 3-24 1976	· · · · · · · · · · · · · · · · · · ·		tte get
and the	•		
XUMIT-(Brugo	Commissions	Mass. 1264 (National Board, State,	Ohio Commission
Gerard Cocuzzo		(Harronet Doner State)	and holy

1821-422 SHEFT 3 OF 3

FORM N-2 CERTIFICATE HOLDERS' DATA SERORT FOR IDENTICAL NUCLEAR PARTS AND ARRUNYEMANCES'

Asnotactured and conflied by	Aswood & Morrill De.,	Inc. 285 Canal Screet,	2376m; WY OTAAA
		er Road Petry, Ohi	
ocation of installationPer:	ry Nuclear Power Plan	teame and address:	o. 1 Nerth Rerry OH
vpet 32467-626-D Rev. 3	SA105 75.	. 7()0 PSI N/A	1993 1788 Suitt
SME Code, Section III, Division 1	•		N√A IGoos Sessino
		iclasši iclasši	
abricated in accordance with Cor	nst. Spec. (Div. 2 cally)NAA	Revision N/A	Date
Remarks: Cust. Item 01,	A&M Item 01, Qry. 1	, Poppet A&M P/N 32467-6	252974-121, (A&M S-1
25637) *Dwg. prepar	ed by A&M. This cer	tification meets the requ	ived information of
ASVE Section 1974 Ed		12 C1	N7/A
vom. Gickness (in.) <u>I. 178''</u> (Maen applicable, Certificate Hold:	Min. dešign thickness (i č.) <u>ib. L</u>	/B ⁵¹ Dia. ID (fr & in.) N/A Lend	th overall (It & ini)
жием орынское, Сентовае того	ers Data neports are actached to	. sach Kennor (massepone.	<u>. </u>
Part or Appurtenance	National	Part or Appurtenance	Nandhal Buaid No
Serial Number	Soard No.	Serial-Number	
	in Numerical Order		ingNumerical Order
(1) HT# C6601 S/N 1	N/A	(26)	1
(2)		(27)	
(3)		(28).	
(4)		(29)	· · · · · · · · · · · · · · · · · · ·
(5)		(30)	
(6)		(3%)	
(7)		(32)	
(8)	 	(33)	
(9)	 		
(10)	<u> </u>		
[111]		(36)	1
(12)	 	1 1	
(13)	1	(38)	
(15)	1	(40)	
(16)		(4)	
(17)		1621	
(19)		(43)	
(19)		(44)	
(20)		[45]	<u> </u>
(21;		(46)	
(22)		1471	
(23)		1481	PI -
(24)		145)	<u> </u>
(25)	1		
i	1	11.	1

This form (E960-0) may be obtained from the Order Dect., ASME, 12 Law Drive, Box 2309, Fairfield, NJ 07097-2300. (12/38)

Peprint (7/91)

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI									
PNPP No. 9308 Rev. 9/11/00 NQI-1741									
1. Owner:									
10 Center R	load. Perry, Ohio	44081			Sheet 1 of	2			
	ear Power Plant (P				Unit 1				
. 10 Center Road. Perry. Ohio 44081 200288203 (Repair Org. P.O. No., etc.)									
Work Performed By: _FIRSTE	VERGY Nuclear Ope	erating Com	ipany PNPP		Type Code Symb	ol Stamp <u>NR</u>			
10 Ce	nter Road, Perry, (Ohio 4408	<u>1</u> .		Authorization No.	33			
					Expiration Date 0	9/28/2011			
4. Identification of System: <u>NUC</u>	LEAR BOILER 18	321 .							
5. (a) Applicable Construction Co	de: <u>ASME Section</u>	III Class	1 N/CLASS		,19 <u>74</u> Editio	on			
- <u>NONE</u> 19									
				<u></u>					
(b) Construction Code used for	or repairs, modifica	tions, or re	eplacement		none tion Addenda	none Code Case(s)			
(c) ASME Code Section XI ap	plicable for Inservi	ce Inspect	ion:	<u>1</u> 989		none			
•		,		Edit	tion Addenda	Code Case(s)			
(d) Applicable Edition of Section 19 89 19 none			odification, (or Kepiac	ements:				
•	Code	Case(s)			•				
(e) Design Responsibilities <u>FI</u>5. Identification of Components F			ement Con	nonents	•				
Name of Name of		Nat.	T	· I:	Repair,	ASME			
Component Manufacturer	Manufacturer Serial No.	Board No.	Other ID.	: Year Built	Replacement, or Modification	Code Stamped			
VALVE ATWOOD & MORRILL	2-560	N/A	1B21 F0022B	1976	Replacement	YES			
					,				
					,				
7. Description of Work: REWOR	KED VALVE USIN	G 1 COVE	R STUD 2.	25-8 HT#	OU16 AND 1 CO	VER			
NUT 2.25-8 HT# EE69.	7. Description of Work: REWORKED VALVE USING 1 COVER STUD 2.25-8 HT# OU16 AND 1 COVER NUT 2.25-8 HT# EE69.								
8. Test Conducted: Hydrostatic									
Pressure 1011 psi Te	st Temperature 14	43 0	degrees F	Code	Case(s) N/A				

PNPP No. 9308 Rev. 9/11/00 NQI-1741						
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 or the front of this form.						
CERTIFICATE OF COMPLIANCE						
I, Michael J Teosick, 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 11						
Date 24 JUNE, 20 09 Signed FENOC-PNPP Solution QC Tech. (name of repair organization) (authorized representative) (title)						
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION 1, 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 CT. of Hartford, Conn. have						
inspected the repair, modification or replacement described in this report on Jour 26, 2009 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 626, 20 09 Signed Theward Local Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)						

1B21-423 SHERT 2 OF 2

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

As Required by U	ne Provisions	of the	ASME Code	Rules
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1.	1. Manufactured by Atwood 5: Morrill Co. Inc. Salem Mass 01970 Order No. 13560-01 (Name & Address of Manufacturer)								
	. Manufactured for General Electric Co., San Jose, California Order No. 205-AF774								
	(Name and Address)								
3.	3. Owner Cleveland Electric Illuminating Co.								
4.	Location of Plant North Perry. Ohio								
5.	. Pump or Valve Identification Valve S/N2-560 26" 575# Main Steam Isolation Valve								
	For Service in Main Steam Pining System (Brief description of service for which equipment was designed)								
	(Briel description of service for which equipment was designed)								
•									
	(a) Drawing No.13560-01-H Rev.3 Prepared by Robert J. Knox								
	(b) National Board No. N/A								
,	Division Constitution 1375	586	00	•					
٠.	6. Design Conditions 1375 psi 586 °F (Pressure) (Temperature)								
7.	7. The material, design, construction, and workmanship complies with ASME Code Section III. Class								
	Edition 1974 , Addenda Date N/A , Case No. 1622								
_									
	Mark No.	Material Spec. No.	Manufacturer	Remarks					
	(a) Castings								
		SA216 WCB	Quaker Alloy	S/N 2-560					
•									
	:		<u> </u>						
		ļ.,							
			<u> </u>	 					
(b) Forgings									
	Poppet	SA350 Gr. LF-2	Cann & Saul	S/N 2-560					
	Cover	SA105 (OT)	Cann & Saul	S/N 3-560					
		<u> </u>							

^{*}Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 6%" x 11", (2) information in items, 1, 2, 5a and 5b 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.

FUIM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Romarks
(c)	Bolting			
	Cover Studs (18)	SA540 Gr. 323 Class 5	Jos.Dyson∂Sons	Reat#114188
	Cover Nuis (18)	SA540 Gr. B23 Class 5	Jos. Dyson&Sons	Heat# SP775]
(ċ)	Other Parts			
	* 3/4 - Nipples (2)	SA106 Gr R	U.S.Steel	S/N3-560
	* 45° Flbow	SA105	Vogt Mach Co.	S/N 11-560
÷				al Construction
	concerned.	DOT AFE NOT	included as I	er as design is
ydro.	Body Poppet static test 2175 1450 psi.			

8. Hy

CERTIFICATION OF DESIGN
Design information on file at <u>General Electric Co.</u> <u>San Jose, California</u> Stress analysis report on file at <u>Atwood & Morrill Co. Inc., Salem, Mass.</u> Design specifications certified by <u>Ranjit Ranjan Ghosh</u> (1) Prof. Eng. State <u>Calif Reg. No. 16371</u>
Stress analysis report certified by Herbert Cook (1) Prof. Eng. State Mass Reg. No. 10981 (1) Signature not required. List name only.
We certify that the statements made in this report are correct.
Date 1-19.76 19.76 Signed Atwood & Morrill O. Inc By Mill State Manager (Manufacturer) Quality Control Manager
Certificate of Authorization No. N812 expires May 7, 1977

CERTIFICATE OF SHOP INSPECTION

	division and believe
and/or the State of Province of Massachus. of Hart ford Conn. Report on 1976, an has constructed this equipment in accordance with By signing this certificate, neither the Inspecting the equipment described in this Data Report. F	have inspected the equipment described in this Data and state that to the best of my knowledge and belief, the Manufacturer the applicable Subsections of ASME Code, Section III. to not his employer makes any warranty, expressed or implied, concernithments, expressed or implied, concernithments, expressed or implied, concernithments, expressed or implied, concernithments, neither the Inspector nor his employer shall be liable in any or a loss of any kind arising from or connected with this inspection.
Date 1-19 19.76	Commissions MA 946
(Inspector).	(National Board, State, Province and No.)

Printed in U.S.A. (6/72)

1821-424

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS. As required by the Provisions of the ASME Code Section XI										
PNPF	No. 9308 R		quired by the Provi	sions of th	E ASME CO		on XI	NQI-1741		
1. 0	wner:	FIRST	ENERGY CORP.				Date <u>5-30</u>	-9		
		10 Center R		Sheet 1 of	2					
		·	B							
2. P	iant:	Perry Nucle	Unit <u>1</u> 200262683							
	10 Center Road, Perry, Ohio 44081 200262683 (Repair Org. P.O. No., etc.)									
3. V\	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.								33		
							Expiration Date <u>0</u>	9/28/2011		
4. ld	entificatio	n of System: <u>NUC</u>	LEAR BOILER 18	321						
5. (a	ı) Applicat	le Construction Co	de: ASME Section	III Class	1 N/CLASS		19 <u>74</u> Editio	on ,		
	WINTE	<u>R</u> 19 <u>75</u> A	Addenda Code (Case(s) <u>N</u>	ONE					
. (b) Constru	ction Code used fo	or repairs, modifica	tions, or re	eplacement		W 75 tion Addenda	none Code Case(s)		
(c) ASME (Code Section XI ap	plicable for Inservi	ce Inspec	tion:	1989	none tion Addenda	none Code Case(s)		
(d) Applica	ble Edition of Section	on XI Utilized for R	epairs, Mo	odification,			Code Case(s)		
·	19 <u>89</u>	19 <u>none</u>								
(e) Design	Responsibilities <u>FI</u>		RP.		<u>-</u>				
6. ld	entificatio	n of Components R	epaired, Modified,	or Replac	ement Con	nponents				
1 .	vame of omponent	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped		
VA	LVE .	ROCKWELL	QC-51	No. 670	1B21 F0032B	1982	Replacement	YES		
				•						
										
7. Di	escription	of Work: <u>REMOV</u> E	D AND REINSTA	LLED TES	T CONNE	CTION FO	OR INSPECTION.	·		
		LER METAL HT#								
8. Te	est Condu	cted: Hydrostatic	- Pneumat	_		erating P	ressure- 🛭 Othe	er- 🗌		
Pr	essure <u>1(</u>	030 psi Tes	st Temperature 15	50 0	legrees F	Code	Case(s) N-416-3	·		

Př	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
_	
9.	Remarks:
_	
_	
_	
N	O 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.
No	ote: 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.
	,
1	
ļ	CERTIFICATE OF COMPLIANCE
1	I, <u>Michael J Tepsick</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 11
	Date 30 JUNE, 20 09 Signed FENOC-PNPP MM J Told OC Tech.
	(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
1	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO
	· · · · · · · · · · · · · · · · · · ·
-	inspected the repair, modification or replacement described in this report on 6/30/9 20 09 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.
1	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 30 JUNE, 20 09 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm.
	(inspector) (National Board (include endorsements), and jurisdiction, and no.)
- 1	

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	ed HUNDANPV AGNA	DEDITION OF THE PROPERTY OF TH	-net-orași Dinavolus Christo		
	A:	s Required by the Provisions ថា នឹ	हिन्दिकी विजयह Specion III Div.	T MRIGHT	
1. 160	nutratures by Roc	Wall International Corp.	., 1900 S. Sammders St.,	Ralēigh, NC 27693	EXI
2. Ma	inufactured for <u>Cle</u>	(Name and Address of M Certifical veland Elec. Ill. Company	v, P.O. Box 500, Chevels	md, Ohio 444.01	
3. Los	cation of Installation	Perry Nuclear Power Plant	I, Units 1 & 2, North Pe	rry, Ohio	
4. Put	mp or Valve	(Name and Address) Valve	20 October Size (مارا العاما	utlet Size 20	
,		N Certificate Holder's (c) Canadia	in ·	_	
	Sarias No. or Type	Serial Registratio No. No.	n (d) Drawing No. (e) Class	:(f) Nat'l. (g) Yaar -Bd. No. Buili	CO. N.
_	_7592(WCC)	QC-51 N/A	D81-24401-15 1	670 19,82	21525 STEERING
(1) (2)	JOSE (WCC)	QC-31 R/R	Rev. A	576 15,05	
(3)					
(4) (5)					
(6)			,		
(7) (3)					21416
(9)					
(10)			- · · · · · · · · · · · · · · · · · · ·		
5. <u> </u>		Osure Check Valve	which couloment-was designed		
_	Hear Ep. 4810	0433-120 Brief description of service tor	Rockwell S.O. 36-244	01	
. E. Beg	iga Conditions	1510 psi 429	*F or Valve Pressure Class	亚 /奎	
7. Cole	o Working Pressure	(Fressure) (Tempstatur 2250 psi at 1:00°F.	(c)		
8. Pres	ssure Retaining Piece	· ·			
	· Mark No.	Material Spec. No.	Manufacturer	Remarks:	
			_	· · · · · · · · · · · · · · · · · · ·	
(.a) (Castings 4810433	SA 216 GT. WCC	Rockwell Int'l	Body	
			(Netal Casting Div.)		
	·			45 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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(b)	Forgings			Thron !	
(b) l	Forgings	SA 105	Corres E. Lerson	Cover	
- - (b) l	115447 .		Charles E. Larson		CHECK TO SECURITY OF THE SECUR
(b) I		SA 105 SA 105	Charles E. Larson Charles E. Larson	Cover	
(b) i	115447 .				
(b) (116447	SA 105 SA 638 Gr. 660T2	Charles E. Larson Charles E. Larson	Disk Gasket Retainds	
(b) (l)	116447 10502 36996	SA 105	Charles E. Larson	Disk	
-	116447 10502 36996 126376	SA 105 SA 638 Gr. 660T2 SA 105 SA 105	Charles E. Larson Charles E. Larson Charles E. Larson	Disk Gäsket Retaind	
(1) For (116447 10502 36996 126376 116792 manually operated valuemental sheets in to	SA 105 SA 638 Gr. 660T2 SA 105 SA 105 IVES Only.	Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson	Disk Gasket Retains Drain Cap (Z) Test Fitting	
(1) For r * Suppirema	116447 10502 36996 126376 116792 manually operated valuemental sheets in to	SA 105 SA 638 Gr. 660T2 SA 105 SA 105 SA 105 ives only. rm of lists, sketches or drawings ma	Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson	Disk Gasket Retains Drain Cap (Z) Test Fitting	
(1) For o	116447 10502 36996 126376 116792 Immonually operated valuemental sheets in to 1, 2 and 5 on this corded at top of this forded at top of this feet.	SA 105 SA 638 Gr. 660T2 SA 105 SA 105 Ives only. rm of lists, sketches or drawings ma Data Repart is included an each shorm.	Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson Observes E. Larson Observes E. Larson	Disk Gasket Retains Drain Cap (Z) Test Fitting " × 11", [2] information in and number of sheets	
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(1) For o	116447 10502 36996 126376 116792 Immonually operated valuemental sheets in to 1, 2 and 5 on this corded at top of this forded at top of this feet.	SA 105 SA 638 Gr. 660T2 SA 105 SA 105 Ives only. rm of lists, sketches or drawings ma Data Repart is included an each shorm.	Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson of the used provided (%) on 18 5 16 16 16 16 16 16 16 16 16 16 16 16 16	Disk Gasket Retains Drain Cap (2) Test Fitting " x 11. [2] information in " and number of sheets th St., New York Att. distance	
(1) For o	116447 10502 36996 126376 116792 Immonually operated valuemental sheets in to 1, 2 and 5 on this corded at top of this forded at top of this feet.	SA 105 SA 638 Gr. 660T2 SA 105 SA 105 Ives only. rm of lists, sketches or drawings ma Data Repart is included an each shorm.	Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson of the used provided (%) on 18 5 16 16 16 16 16 16 16 16 16 16 16 16 16	Disk Gasket Retains Drain Cap (Z) Test Fitting " × 11", [2] information in and number of sheets	
(1) For o	116447 10502 36996 126376 116792 Immonually operated valuemental sheets in to 1, 2 and 5 on this corded at top of this forded at top of this feet.	SA 105 SA 638 Gr. 660T2 SA 105 SA 105 Ives only. rm of lists, sketches or drawings ma Data Repart is included an each shorm.	Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson of the used provided (%) on 18 5 16 16 16 16 16 16 16 16 16 16 16 16 16	Disk Gasket Retains Drain Cap (2) Test Fitting " x 11. [2] information in " and number of sheets th St., New York Att. distance	

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·	Material Spec. No.	Manulactore:	Rumarks				
N/A							
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	1			ن			
	<u> </u>						
							
- 1							
(d) Other Parts			Equalizar				
L23469	SA 106 Gr. B	Capital Pipe & Steel Products	wing inser				
05505	SA 106 GI. B	Capital Pipe &	Drain Mipple (2)				
	 	Steel Products					
	 	· · · · · · · · · · · · · · · · · · ·					
				•			
	1	<u> </u>					
. Hydrostatic test3375	psi. Disk Differential test pressure. 22	50 psi					
	CERTIFICATE OF C	OMPUANCE					
We confify that the stateme	nts made in this report are correct	and that this outpo or value of	onlosms to the rules of				
construction of the ASME C	ode for Nuclear Power Plant Com	ponents, Section III, Div. L. Editi	ion				
(Liste)		Date 2-10-1	110 12 26 26	<u>ئ</u> ئۇ			
Signed Rockwell Inte	rnational Corp.	by France Quality Assi	Was 7/0 /2	***			
Our ASME Certificate of Auth	orization No. N-1562	use the N symbol	expirex 11/2;6/82				
		(H)	(Dete)				
	COTTON TO L	DE DECUCE!					
	CERTIFICATION C		503				
Design information on file at	Rockwell International only) on file at Rockwell Inte	rnational Corp., Ralei	sh, NC 27503				
Gesign specifications certifie	d by (1) Milton G. Capioti Reg. No. 028303-E	<u>.s</u>	BY BY				
PE State PA Stress analysis certified by [1	Reg. No. Dayson		5C55				
	Reg, No. 10057		GAI/QA				
(1) Signature not required. Li	st name only.						
	· · · · · · · · · · · · · · · · · · ·						
	CERTIFICATE OF SHO	P INSPECTION	- /				
the undersigned holding	a valid commission issued by the I	National Board of Aniles and Pre-	ssure Vessel Inspectors F-				
	North Carolina						
	have inspected the	ne pump, or valve, described in	n this Data Report on).			
and the State or Province of	FIB 05, 19 82, and state that to the best of my knowledges act belief, the N Certificate Holder has com-						
and the State or Province of			enificate Holder has con-	1000			
and the State or Province of	in-accordance with the ASME Code,	Section III.					
of Hartford, CT FIB.D5 Structed this pump, or valve, By signing this centificate, no	in-accordance with the ASME Code, sither the inspector nor his employe	Section III. ii makes any warranty, খ্যোকার্ডের	er implied, concerning	1			
of Hartford, CT FIB.D5 Structed this pump, or valve, By signing this cenificate, no	in-accordance with the ASME Code,	Section III. If makes any wattants, explained her the inspector not his জেলাইকা	er implied, concerning	463			
of Hartford, CT FIB.D5 Structed this pump, or valve, By signing this cenificate, no	in-accordance with the ASME Code, sither the inspector nor his employe this Data Report, Furthermore, neith	Section III. It makes any wattrants, expressable the inspector not his continue any kind arising from or a continue.	or implied, concerning u shall be liable in any	· 😅			
and the State or Province of of Hartford. CT FR D5 Structed this pump, or valve, By signing this cenificate, me the equipment described in manner for any personal inju	in-accordance with the ASME Code, either the inspector nor his employed this Data Report, Furthermore, neith any or property damage or a loss of a	Section III. If makes any warranty, expression out the inspector not his extraction ony kind arising from or out. NEB3&3 NC919	or implied, concerning a shall be liable in any services with this inspection.	·			
and the State or Province of of Hartford, CT FR D5 Structed this pump, or valve, By signing this cenificate, me the equipment described in manner for any personal inju	in accordance with the ASME Code, sither the inspector nor his employed this Data Report. Furthermore, neither property damage or a loss of a loss of the code of	Section III. If makes any warrants, expression our the Inspector not his continue any kind arising from or a conti- supplied a part of the continue supplied a p	or implied, concerning a shall be liable in any services with this inspection.				
and the State or Province of of Hartford, CT FR D5 Structed this pump, or valve, By signing this cenificate, me the equipment described in manner for any personal inju	in accordance with the ASME Code, sither the inspector nor his employed this Data Report. Furthermore, neither property damage or a loss of a loss of the code of	Section III. If makes any warrants, explained the inspector not his continue any kind arising from or	or implied, concerning a shall be liable in any services with this inspection.				
and the State or Province of of Hartford, CT FR D5 Structed this pump, or valve, By signing this cenificate, me the equipment described in manner for any personal inju	in accordance with the ASME Code, sither the inspector nor his employed this Data Report. Furthermore, neither property damage or a loss of a loss of the code of	Section III. If makes any warranty, expression out the inspector not his extraction ony kind arising from or out. NEB3&3 NC919	or implied, concerning a shall be liable in any services with this inspection.				
and the State or Province of of Hartford. CT FR D5 Elrocted this pump, or valve, By signing this centificate, me the equipment described in manner for any personal inju	in accordance with the ASME Code, sither the inspector nor his employed this Data Report. Furthermore, neither property damage or a loss of a loss of the code of	Section III. If makes any warrants, explained the inspector not his continue any kind arising from or	or implied, concerning a shall be liable in any services with this inspection.				
and the State or Province of of Hartford. CT FR. D.5 Circuited this pump, or valve, and the equipment described in manner for any personal injunctions.	in accordance with the ASME Code, sither the inspector nor his employed this Data Report. Furthermore, neither property damage or a loss of a loss of the code of	Section III. If makes any warrants, explained the inspector not his continue any kind arising from or	or implied, concerning a shall be liable in any services with this inspection.				
It is state or Province of Art Ford. CT FIRE D.5 Tructed this pump, or valve, y signing this certificate, me equipment described in transport for any personal injunctions.	in accordance with the ASME Code, sither the inspector nor his employed this Data Report. Furthermore, neither property damage or a loss of a loss of the code of	Section III. If makes any warrants, explained the inspector not his continue any kind arising from or	or implied, concerning a shall be liable in any services with this inspection.				

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1821-425

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As required by the Provisions of the ASME Code Section XI									
PI	NPP No. 9308 F		quired by the Provis	sions of th	e ASME Co	ode Section	on XI	NQI-1741		
1.	Owner:	FIRST	ENERGY CORP.				Date 6-30	-9		
	10 Center Road, Perry, Ohio 44081 Sheet 1 of									
2.	Plant: _		ear Power Plant (P				Unit 1			
2										
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp 10 Center Road, Perry, Ohio 44081 Authorization No. 33										
			<u></u>	<u> </u>	<u>.</u>		Expiration Date 0			
4	Identificatio	n of System: <u>NUC</u>	LEAR BOILER 18	121			,			
					4		1074 Editio	-		
٦.	(a) Applica	ole Construction Co	NAME/SECTI	ON/DIVISIO	N/CLASS		19 <u>74</u> Editio	. الر		
	WINT	ER 19 <u>75</u> /	Addenda Code (Case(s) <u>N</u>	ONE					
	/-\ C			tions of the		to: 1074	W 75			
	(b) Constri	action Code used fo	or repairs, modifica	uons, or re	spiacemein		tion Addenda	none Code Case(s)		
	(c) ASME	Code Section XI ap	plicable for Inservi	ce inspeci	ion:	1989 Edi	none .	none Code Case(s)		
	(d) Applica	ble Edition of Section	on XI Utilized for R	epairs, Mo	dification,	or Replac				
	19 <u>89</u> .	19 <u>none</u>	Addenda <u>non</u>	e Case(s)						
	(e) Design	Responsibilities Fl			·		Section 1	**		
6.	Identificatio	n of Components F	Repaired, Modified,	or Replac	ement Cor	nponents				
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code		
-				No.		-	or Modification	Stamped		
	VALVE .	ROCKWELL	QA-26	665 ·	1B21 F0032A	1981	Replacement	YES		
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8.		cted: Hydrostatic		ic- 🗍 1	Nominal Op	erating P	ressure- Ø Oth	er- 🗌		
		030 psi Te			legrees F		Case(s) <u>N-416-3</u>			
	<u>.</u>									

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741	
O. Davieda	
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 or the front of this form.	٦
CERTIFICATE OF COMPLIANCE	
I. Michael J Tepsick, 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 11	-
Date 30 JUNE, 20 09 Signed FENOC-PNPP Mul J QC Tech.	
. (пате 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 CT. of Hartford, Conn. have	
inspected the repair, modification or replacement described in this report on 6/30/9 , 20 09 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 30 JUNE, 20 09 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)	

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. International by _	Rochwell Intern	ational Corp.	, 1900 S. Saun	ders St	., Raleigh	:, NC 2/5
Manufactured for	(Hame and Addre Cleveland Elect	es of N Cartificate	Holder)	500, E	leveland.	Ohio 44
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Location of Instellati	ON PRILTY NUCLER	i Fower Staur	, DULLS A G ZE	140 1 222	ratiy, ou	~~~
Pump or Valve	Valve	. Naminal	Inlet Size	.0	outlet Size	ZU (inch)
(=) Model No	(b) N Certificate Hold	ier's (c) Canadian	· · · · Inc	ny .		(man)
Series No.	Serial	Registration	(d) Drawing	:.	(f) Net'l.	(g) Yesi
 or Type 	. No.	No.	Na.	(e) Class	Bd. Na.	Built
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Control1	ed Closure Check	k Valve				
			hich equipment was desi ROCKWeII S.	pnad)		
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(a) Castings 4810453 (b) Forgings 116447 220528	SA 105	i 420 Tremperature) i at 100°F. ial Spec No.	Manufactur Rockwell Int (Metal Castin	er Arson Arson Arson	Remi Boc Cov Cov Cas	arks

⁽¹⁾ For manually operated valves only.

^{*} Supplemental sheats 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 and 5 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.

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		Steel Floudies	
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		Steel Products	DIETH Wibb
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	i	İ	<u> </u>
9. Hydrostatic test 3375	72.	50	
9. Hydronatic tem 23/2 ps	i. Disk Differential test pressure	<u> </u>	
	CERTIFICATE OF CO	TIPOL LAVELOT	
	CERTIFICATE DE CO	WIE CHANGE	
We certify that the statement	s made in this report are correct a	nd that this purity, or valve, o	onforms to the rules of
construction of the ASME Co	de for Nuclear Power Plant Compo		
Addenda Winter 1975	, Code Case No. N/A	Date 12-30	-81
	eruational Corp. by	of a andrew	all 12/30/8/
[N Certifique Ho]	x-1562	Panger, Quality-As	surance 11-26-82
Our ASME Certificate of Author	nzation No. 11 10 us	e the symbol	Opires 11-40-04
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			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
•	CERTIFICATION OF	,	•
Design information on file at _	Rockwell International C	Corp., Raleigh, NC 27	603
Stress analysis report (Class 1	only) on file at Rockwell Inter	reational Corp., Rale	igh, NC 27603
			T E
Design specifications cartified !	(1) Milton G. Capiotis		
PE State PA	Reg. No. 026303-E		(00 5455 b)
Stress analysis conified by (1)	10,55,53	<u> </u>	15 5433 01
PE Stote N.C	Reg. No. 10057		GALLO
(1) Signature not required, List	nama only.		
<del></del>			
	CERTIFICATE OF SHOP	INSPECTION	
I, the underzigned, holding a	volid commission issued by the No	tional Board of Boiler and Pre	ssure Vessal Inspectors
and the State or Province of	אמדוה לפרהוותם	and employed by HSBI &	I Co.
of Hartford, CT	have inspected the	pump, or valve, described i	n this Data Report on
	9 £ _ , and state that to the best of n	ny knowledge and belief, the N C	enificate Holderhat con-
structed this pump, or valve, in	accordance with the ASME Code, Se	ection III.	
By signing this certificate, neith	ner the inspector nor his employer r	makes and matterns expressed	f or implied concerning
	s Data Report Furthermore, neither		
	or properly damage or a loss of any		
		Constituting from or confidence	· · · · · · · · · · · · · · · · · · ·
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NIS-2						REPLACEM	ENTS			
PNPP No. 9308 I		quired by the Prov	/ISIONS OF TI	ne ASME C	ode Secti	on XI	NQI-1741			
1. Owner: _	FIRS	TENERGY CORP.				Date 10/03/07				
	10 Center	Road, Perry, Ohio	44081			Sheet 1 of	2			
·						•				
2. Plant: _		lear Power Plant (I				Unit one				
10 Center Road, Perry, Ohio 44081 ORDER 200099255 (Repair Org. P.O. No., e										
2. Work Borformed Day, FIDOTENEDOV Musica Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasion Occasi										
3. WOIN FEIL	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP  Type Code Symbol  10 Center Road, Perry, Ohio 44081  Authorization No.									
				<del></del>	•	Expiration Date				
4 Identificatio	n of System: 1B3	3 REACTOR REC	IRC SYST	~FM						
						1071 Editi	00			
o. (a) Applicat		NAME/SECT	LION/DIVISIO	N/CLASS	TEL 11	,19 <u>71</u> Editi <b>4</b> 69	·			
SUMMI	ER 19 <u>73</u>	Addenda Code	Case(s) N	I/A			,			
(b) Coosta	ection Code used f	or repairs, modifica	ations or s	eolacement	e: 1074	winter 75	see abov			
(b) Constit	action Code asea i	or repairs, modified	ations, or r	epiacement	.s. <u>1574</u> Edi	tion Addenda	Code Case(s)			
(c) ASME	Code Section XI ap	plicable for Inserv	rice Inspec	tion:		no tion Addenda	<u>n/a</u> Code Case(s)			
(d) Applica	ble Edition of Sect	on XI Utilized for F	Repairs, M	odification,	or Replac	ements:				
19 <u>89 °</u>	<u>n/a</u> 19 <u>n/a</u>	Addenda <u>n/a</u>	e Case(s)			•				
(e) Design	Responsibilities <u>F</u>	irst Energy Nuclea		g Company	PNPP					
6. Identification	n of Components F	Repaired, Modified	or Replac	ement Con	nponents					
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME			
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped			
PUMP	BYRON JACKSON	741-S-1281	NA	1B33 C0001A	1978	RPL	YES			
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ASSEMBLY S/		EU SEAL CARTR	IDGE ASS	FINIBLY -VV	IIH NEW	REBUILT CARRI	<u> </u>			
8. Test Condu	cted: Hydrostatic	- Pneumat	tic- 🔲 🗈 1	Nominal Op	erating Pi	ressure- 🗌 Othi	er- 🛛			
Pressure 10	Pressure 1000 psi Test Temperature 132 degrees F Code Case(s)									

	NOI-1741
9. Remarks:	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2	2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RE	ECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sk drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 th report is included on each sheet, and (3) each sheet is numbered and the number of she the front of this form.	rough 6 of this
CERTIFICATE OF COMPLIANCE	
I, <u>John W. Messenger</u> , certify that to the best of my knowledge and belief the statements made in correct and the repair, modification or replacement of the items described above conforms to Section Code and to the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9/28_	20 08
Date 10/2 20 07 Signed FENOC-PNPP William (name of repair organization) (authorized representative)	OE (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas Lapsholding a valid commission issued by The National Bo	and of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHI	i
and employed by HSB CT. of Hartford CT have	
inspected the repair, modification or replacement described in this report on OCT 3, 20 07	d state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in a	į.
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	1
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed o	r implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer s	· ·
any manner for any personal injury, property damage or loss of any kind arising from or connected wit	h this inspection.
Date 10 3, 20 67 Signed Thomas State Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "I" "A" Commissions NB 9330 "N" "I" "A" Commissions NB 9330 "N" "I" "I" "A" Commissions NB 9330 "N" "I" "I" "A" Commissions NB 9330 "N" "I" "I" "A" Commissions NB 9330 "N" "I" "I" "A" Commission NB 9330 "N" "I" "I" "A" Commission NB 9330 "N" "I" "I" "A" Commission NB 9330 "N" "I" "I" "I" "A" Commission NB 9330 "N" "I" "I" "I" "I" "I" "I" "I" "I" "I"	de endorsements).

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### 1033-130 pg20F2 MRI26707

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

1B33-105 PG. 2 of 2

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

	Not to Excee	d One Day's Production	on	Pg. 1 of	
rufactured and certified by BR/	IP INTERNATIONAL INC.	PUMP DIV. LOS ANGPLES	OPERATIONS 230	O E. VERNON AVE., VER	MON, CA
ufactured for THE CLEVELAN	D ELECTRIC ILLUMINAT			44081	
		(name and address of Purch	aser)		
stion of installation PERRY H	KLEAR PORER PLANT, III	(name and address	, DOCK NUMBER I	, KURTH PERRY, OHLO	44081
E: LO02168 REV. A	SA-182 GR. F316 (mer'L spec. no.)	75,000 PSI	H/A ICRNI	1.996 . (year built)	
(drawing no.)	•			N/A	
ME Code, Section III, Division 1	1: * 1971	SUMMER 1973 (addenda date)	I (class)	(Code Case na	.1
ricated in accordance with Cor	nst. Spec. (Div. 2 only)	N/A Revision	nN/A	Date N/A	<del></del>
narks: BR/IP JOB NO:		. 1000	•	artridge assembly.	
DESIGN, MATERIAL, PABRI	•	W IN ACCORDANCE WITH	1983 EDITION S	OPMER 1984 ADDENDA.	•
DESIGN BATTATALY TABLE		AT IN TAXABLE PARTY			<del></del>
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n. thickness (in.) 2-625	Min. design thickness (in.)	2-500 Dia, ID (ft & in	1 7.500 Leng	rth overall (ft & in.) 0 3.	105
en applicable, Certificate Holde					
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Part or Appurtenance	ì	1 1	l Number	Board No.	
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mental information in the form of lists, sketches, or grawings may be used provided (1) size is 8% × 11, (2) information in items 2 and 3 on this Data Report led on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Reprint (7/91)

#### FORM N-2 (Back — Pg. 2 of ____)

	Certificate Ho	lder's Serial Nos	318455	_ through	N/A
	CERTIFICATION OF DE	ESIGN		,	
Design specifications certified by	N/A (when applicable)		. State <u>K/A</u>	Reg. no	K/A
Design report* certified by	N/A (when applicable)	P.E	. StateN/A	Reg. no.	N/A
	CERTIFICATE OF COMP	LIANCE			
We certify that the statements made in this	s report are correct and that this Ithose	¥-7500	SEAL CARTRII	KE ASSEMBLY	
conforms to the rules of construction of the	· ·				
NPT Certificate of Authorization No.	H-1131	Expires	JUNE	10, 1996	
Date Janua 12,1996 Name B	NPT Cortificate Holderi	Signed M	Past . Jourthorized	ropresentativel	
	CERTIFICATE OF INSPE	CTION			
	ARKURIGHT MUTUAL INSURANCE	CO., FACTORY MU	TUAL ENGINEE	RING ASSOCIA	TION
•	ted these items described in this Data f			· ·	te that to the
best of my knowledge and belief, the Certif			accordance wi	m the Asme C	oda, Section
III, Division 1. Each part listed has been aut By signing this certificate, neither the inspe	, -		nied concerni	na the equipme	ent described
in this Data Report. Furthermore, neither th	•				
loss of any kind arising from or connected v				, , , ,	
Opte 1/12/96 Signed 2	(Authorized Inspector)	Commissions	A / 864 let 1. Bd. (incl. endor	L, NB	or prov. and no.)



1333-131

	Rev. 9/11/00							NQI-174
1. Owner:		STENERGY CORP.					4-7	
_	10 Center	r Road. Perry, Oh	io 44081	· · · · · · · · · · · · · · · · · · ·		Sheet	1 c	of <u>2</u>
2. Plant: _	Perry Nu	ıclear Power Plant	(PNPP)			Unit	1	•
_	10 Center	Road, Perry, Ohio	44081			200284 (Repair	4501 r Org. P.O.	No., etc.)
3. Work Perfe	ormed By: FIRST	ENERGY Nuclear O	perating Co	mpany PNPi	P	Type C	Code Svn	nbol Stamp
	-	Center Road, Perry			_		•	o. 33
								09/28/2011
4. Identificatio	on of System: RF	ACTOR RECIRCU	ILATION 1	B33		•		
5. (a) Applica	ble Construction (	Code: <u>ASME Section</u> NAME/SEC	on III Clas	s 1 DN/CLASS		,19 <u>7</u> 2	4 Edi	tion
WINTE	IR 19 <u>75</u>	Addenda Code	: Case(s) <u>2</u>	272, 1728, ·	1644-4			
(b) Constru	uction Code used	for repairs, modific	ations, or	replacemer			1975 ddenda	none Code Case
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(C) ASME	Code Section XI a	policable for Inser-	vice Insped	ction:	1989	•		
(C) ASME	Code Section XI a	applicable for Inserv	vice Inspe	ction:		<u>no</u>	one ddenda	none
		applicable for Inservation XI Utilized for I	•		Ec	ition A	one ddenda	none
(d) Applica	ble Edition of Sec	tion XI Utilized for	Repairs, M	lodification,	Ec or Repla	ition A	one ddenda	none
(d) Applica	ble Edition of Sec	tion XI Utilized for	Repairs, M ne le Case(s)	lodification,	Ec or Repla	ition A	one ddenda	none
(d) Applica 19 <u>89</u> , (e) Design	ble Edition of Sec 19 <u>none</u> Responsibilities <u>F</u>	tion XI Utilized for Addenda nor	Repairs, M ne le Case(s) DRP	lodification,	Ec	lition Accements:	one ddenda	none
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NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Bac NPP No. 9308 Rev. 9/11/00 NQ	k) 1-1741
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.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIV	ED.
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drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of the report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record the front of this form.	nis ded o
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick, 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 11	
Date 25 April 20 09 Signed FENOC-PNPP Michael Jane OC Tech	
(name of repair organization) (authorized representative) (title)	_
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas G. Labs,holding a valid commission issued by The National Board of Boiler ar	nd
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO	_
and employed by HSB CT. of Hartford, Conn. hav	e
inspected the repair, modification or replacement described in this report on April \$20 09 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	1
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any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspectior	1.

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2. Plant _	Perry Nu	clear Power Plant	(PNPP)	<del>,</del>		Unit 1	
-	10 Center	Road, Perry, Ohio	44081			200284502 (Repair Org. P.O. I	No., etc.)
3. Work Perfo	ormed By: FIRST	ENERGY Nuclear O	perating Co	mpany PNPF	<u>.</u>	Type Code Sym	ibol Stamp
	1 <u>0.</u> C	enter Road, Perry	<u>, Ohio 44,0</u>	<u>81</u>		Authorization_No	o. <u>33</u>
gr ^a	•					Expiration Date	09/28/201
4. Identificatio	on of System: RE	ACTOR RECIRCL	ILATION 1	B33			
5. (a) Applica	ble Construction C	Code: ASME Section	on III Clas:	s 1 DN/CLASS		,19 <u>74</u> Edit	ion
WINTE	R 19 <u>75</u>	Addenda Code	case(s) 2	72, 1728, 1	644-4		
		for repairs, modific pplicable for Inser			1989	lition Addenda	none  Code Case  none  Code Case
(d) Applica	ble Edition of Sec	tion XI Utilized for	S Repairs, M	odification,		-	Code Casi
19 <u>89</u> ,	19 <u>none</u>	Addenda <u>no</u>	ne	•		•	
(e) Design	• Responsibilities • <u>F</u>	IRSTENERGY CO	de Case(s) DRP.		:		•
. Identification	n of Components	Repaired, Modified	i, or Repla	cement Cor	nponents	· · · · · · · · · · · · · · · · · · ·	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING	GE	1B33	64076	N/A	1985	Replacement	YES
SYSTEM							
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NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
<del></del>
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.
Mata: Attach all applicable Manufacturade Data Danada Supplemental aboute such as lists skatches or
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, Michael J Tepsick, 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 11
Date 25 April , 20 09 Signed FENOC-PNPP Mil ) Turk QC Tech. (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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on Apr. 175, 20 09 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 425, 20 Signed Thoward Commissions NB 9330 "N" "I" "A" Ohio Comm.  (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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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								
2	NPP No. 9308 F		dulled by the Flov		ie Adivic C		OIT XI	NQI-1741	
1	. Owner	FIRST	TENERGY CORP.				Date <u>6-3-</u>	9	
		10 Center F	Road, Perry Ohio	44081			Sheet 1 of	2	
		•							
2	. Plant:	Perry Nucl	ear Power Plant (P	NPP)	<del> </del>		Unit 1		
		10 Center F	Road, Perry, Ohio 4	14081			200005700 (Repair Org. P.O. I	lo etc.)	
							(, , , , , , , , , , , , , , , , , , ,	,,	
3	. Work Perfo	rmed By: FIRSTE	NERGY Nuclear Ope	erating Con	noany PNPP		Type Code Symi	ool Stamp <u>NR</u>	
	•	10 C∈	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No		
,							Expiration Date !	09/28/2011	
4.	. Identificatio	n of System: REA	ACTOR RECIRCU	LATION 1	B33		<del></del>		
5.	(a) Applicat	le Construction Co	ode: <u>ASME Sectio</u>	ı III Class	. 1		19 <u>74</u> Editi	on	
	NOSIE	40	NAME/SECT			4027			
	NONE	19 /	Addenda, Code	Case(s) <u>1</u>	567, 1516-	1, 1037	·		
	(b) Constru	ction Code used fo	or repairs, modifica	tions, or r	eplacement		none tion Addenda	none Code Case(s)	
	(c) ASME (	Code Section XI ap	plicable for Inservi	ce Inspec	tion:	1989	none fion Addenda	none Code Case(s)	
	(d) Applical	ole Edition of Section	on XI Utilized for R	epairs. Me	odification.			0000 0130(3)	
		19 <u>none</u>	-		,	•			
		Responsibilities <u>Fl</u>	· Code	e Case(s)				•	
6.	- · · · · ·	of Components F			cement Cor	nponents	• Amazini di Kalendaria		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
	VALVE	ANCHOR DARLING	E-602D-2-3	N/A	1B33 F0067B	1976	Replacement -	YES	
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}			·····					<del>                                     </del>	
L		,				<u> </u>			
7.	Description	of Work: REBUIL	T VALVE USING 3	NEW BO	DY TO BO	NNET ST	UDS AND NUTS.		
		UDS HT # 47024 A							
8.	•	cted: Hydrostatic		. —	•	_	_	er- 🗌	
	Pressure 10	025 psi Tes	st Temperature 12		degrees F	Code	Case(s) - N/A		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
5. I\G:Haik5.
NO MANAGE ATTICTANDING DEDECTION TO THE INTEREST OF CONTROL OF CART A DECTION
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, Michael J Tepsick, 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 11
Date 3 JUNE 20 09 Signed FENOC-PNPP Mile Jan QC Tech.
(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 ofOHIO
and employed by <u>HSB_CT.</u> of <u>Hartford, Conn.</u> have
inspected the repair, modification or replacement described in this report on 5 JUNE, 20 09 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 65, 2009 Signed Thomas House Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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1833-133

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

. As Required by the Provisions of the ASME Code Rules

ì.	Manufactured by 701 First St., Wil	liamsport. Pa.		rder No E-6020
2.	General Electric Co Memoracoured for 175 Curtner Ave.,	ompany San Jose, Calif	5. 95125 o.	der No. <u>205-AG442</u>
3.	Owner Cleveland Electric	Illuminating C	vnsamo	
4.	Location of Plant North Perry, Ohio			
5.	Pump or Valve Identification E-6020	0-2-3	· · · · · · · · · · · · · · · · · · ·	ţ.a.
	24x20x24" Recirc. 6	Sate Valve		
	(Brief description	n of service for which eq	nipment was designed)	
	(2) Drawing No. 94-13862 Rev. F p	repared by And	hor/Darling Valve	≘ Co.
	(b) National Board No.	· -,	. <del>.</del>	
	•			
, , .				
	Mark No.	Material Spec. No.	Menufecture:	Remarks
	(a) Castings .  Body Ht. F7015, S/N N2118	SA351-CF8M	Ouaker Alloy	
	Bonnet Ht. F6700, S/N N1885	SA351-CF8M	Quaker Alloy	
	Discs Ht. F6919, S/N N2251 Ht. F6919, S/N N2127	SA351-CF3A	Ouaker Alloy	
	(b) Forgings			
	(b) 1 organgs			
		Plant North Perry, Ohio  ve Identification E-6020-2-3  24x20x24" Recirc. Gata Valve  (Brief description of service for which equipment was designed)  No. 94-13862 Rev. F prepared by Anchor/Darling Valve Co.  Board No		

#### FORM NPV-1 (back)

	Mark No.	Material Spec, No.	· Menufecturer	Remarks
	(c) Bolting	1		
	Body/Bonnet Stud	SA193_87	REC Corp	
	Ht 47024			
			<u> </u>	<u> </u>
	Body/Bonnet Nut	SA104-7	Vitco Nuclear Pr	poducts, Inc.
	Ht, 8067384	<u> </u>		
				-
,	(d) Other Prots		<del></del>	1
File 1/2=14	> * Drain Pipe, HT.#00973	SA479-316	Allegheny Ludlum	Steel Corporation
6.22 acc	Bypass Pipe, HT.#18616	SA479-316L	Allegheny Ludlum	Steel Corporation
المناح المالية			1	
PLA.	Vent Pipe, HT. #00973	SA479-316	Allegheny Ludlum	Steel Corporation
•	<u> </u>			
			<u> </u>	<u> </u>
8. Hy	droscatic test <u>3638</u> ps	i.	•	
1		ERTIFICATION OF	DESIGN	
	ign informacion on file at General Flet	-+wic Co 175 /	Suntage Aug Con	3 0-346 05305
	ss analysis report on file atAnchor/[	Jarling Valva Co	) Williamsport F	1058, 12111, 95125
. Doe	ign specifications certified by Hassana			
				Pa. Reg. No. 20940-E
i	Signature not required. List name only.	سيبشاس فيستبيعون	(1) . 101. 225, 21210 2	
		• • •		1
Ψe	certify that the statements made in this repo	et are correct.		ļ
` {		·		,, , , , , , ,
" Date	2-4 19 76 Signed A	Inchor/Darling \	alve Coby /C. Z. /	Yoursebrech!
			/\ · · · ·	Houseknecht
Cen	difficate of Authorization No. N779	expires3-4	//	
•			•	
•				
	CERTI	FICATE OF SHOP I	RSPECTION	
l .			10 / 0 // 10	, ,
1	, the undersigned, holding a valid commiss SKthe Scace of EXXXXXXXX Pennsylv	non issued by the Nati	one Board of Boder and Pr	nion incurance Co
and/	Boston, Mass.		have inspected the equipment	į.
B ===	or on 7-18-75/hey 2.5 1976		have inspected the equipment	d belief the Magnifestures
hzs	constructed this equipment in accordance w	ich the applicable Subs	sections of ASME Code, Sec	ction III.
1	by signing this certificate, neither the Insq the equipment described in this Data Report	pector nor his employed	makes any wantanty, expre	essed or implied, concern-
nam.	ner for any personal injury or property dama	ge or a loss of any kind	acising from or connected	with this inspection.
			•	
1				
, 1	2-5 7/	•		
Date	19 / 6			
7				
- 1/ -	2 mante		,	1
XIC.	WY WAR		Pennsylvania WC972	
140	(laspector)	Commissions _	(National Board, State,	Province and No.)
1	Rusself E. Montgomery		fractional board, state,	

1B33-134

NIS	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI								
PNPP No. 9:	AS FE 08 Rev. 9/11/00	equired by the Provi	ISIONS OF U	16 ASME CO	ode, Secti	on Al	NQI-1741		
1. Owner:	FIRS	TENERGY CORP.			~	Date 6/22/09_			
		Road. Perry, Ohio				Sheet 1 of			
2. Plant:	Perry Nuc	lear Power Plant (F	NPP)	<del></del>		Unit <u>one</u>	<del></del>		
10 Center Road, Perry, Ohio 44081 ORDER 200299722 (Repair Org. P.O. No., etc.									
	(Repair Org. P.O. No., etc.)								
3. Work P	erformed By: FIRSTE	NERGY Nuclear Ope	erating Con	npany PNPP		Type Code Symb	ool Stamp <u>NR</u>		
	10 C	enter Road, Perry,	Ohio 4408	<u>11</u> .		Authorization No.			
						Expiration Date (	09/28/2011		
4. Identific	ation of System: 183	3 REACTOR RECI	RC. SYST	EM		•			
5. (a) App	icable Construction C	ode: ASME SECTI	ÒN III NB	CLASS 1		,19 <u>71</u> Editi	on		
	icable Construction C								
SU	<u>MMER</u> 19 <u>73</u>	Addenda Code	Case(s) <u>N</u>	1-272, N-242	2, N-413,	1644-56, 1728			
(b) Cor	struction Code used f	or renairs, modifica	ations: or o	enlacement	s· 1974	winter 75	see abov		
(5) (6)	·	or repairs, modifice	20013, 01 1	cpiacement		tion Addenda	Code Case(s)		
(c ) ASI	ME Code Section XI a	oplicable for Inservi	ice Inspec	tion:	1889 Edi	no tion Addenda	n/a Code Case(s)		
(d) App	licable Edition of Sect	ion XI Utilized for R	Repairs, Mo	odification, o			0000 0000(0)		
	9. <u>n/a</u> 19 <u>n/a</u>	Addenda <u>n/a</u>			•				
	ign Responsibilities <u>F</u>	. Code	e Case(s) r Operatin	q Company	PNPP	Andre . Averagement .			
	ation of Components								
Name	of Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME -		
Compon	ent Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped		
PIPING	PULLMAN	1B33	119	NA	1985	REPLACEMENT	YES		
SYSTEM	POWER		ļ	<u> </u>			<b> </b>		
·			<b>.</b> •						
				· ·					
-			<u> </u>		<del></del>		<u> </u>		
7 D		 	L. CUTDO	117 0005	100778	AND OF MENT 4			
	ion of Work: <u>REPLAC</u> Z149", AND 8-HT CC								
SYSTEM.									
		<b>.</b> .				· F			
	nducted: Hydrostatio			Nominal Op	•		er- 🗌		
riessur	Pressure 1025 psi Test Temperature 123 degrees F Code Case(s) N/A								

P	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	. Remarks:
_	
N	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
<u>B</u>	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
7	ote: 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, John W. Messenger , 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 9/28, 2011
	National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9/28 , 2011 Date 6/23/ , 20 09 Signed FENOC-PNPP Mullim QE (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
٠	I, <u>Thomas 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 OHIO
	and employed by HST CT. OF HARTFORD CONN. have
	inspected the repair, modification or replacement described in this report on 2005 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
ŀ	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
	Date 124; 20 69 Signed Nevaus Commissions NB 9330 "N" "I" "A" OHIO COMM.  (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1B33-135

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI								
PNPP No. 9308 P		quired by the Provi	sions of tr	e ASME Co	008 Section	on XI	NQI-1741	
1. Owner:	FIRST	ENERGY CORP.				Date 6/24/09		
	10 Center F					Sheet 1 of		
2. Plant _	Perry Nucl					Unit one		
10 Center Road, Perry, Ohio 44081 ORDER 200282000 R/0 A (Repair Org. P.O. No., etc.)								
3. Work Perio	ormed By: <u>FIRSTE</u>	VERGY Nuclear Ope	eration Com	nanv PNPP		Type Code Symb	ool Stamp NR	
		enter Road, Perry,				Authorization No.	· —	
				_		Expiration Date (		
4. Identificatio	n of System: 1B33	REACTOR RECI	RC. SYST	ЕМ		<u>, , , , , , , , , , , , , , , , , , , </u>		
5. (a) Applicat	ole Construction Co	de: ASME SECTI	ON III NB	CLASS 1		19 <u>71</u> Editio	on	
		NAME/SECT	ION/DIVISIO	N/CLASS	7/2/09			
SUMM	ER 19 <u>73</u> /	Addenda Code	Case(s) <u>N</u>	<u>/A</u>	•			
(b) Constru	uction Code used for	or repairs, modifica	tions or r	eplacement	s: 1974	winter 75	see abov	
•					Edi	tion Addenda	Code Case(s)	
(c) ASME	Code Section XI ap	plicable for Inservi	ce Inspec	tion:	<u>1889</u> Edi	no lion Addenda	n/a Code Case(s)	
(d) Applica	ble Edition of Secti	on XI Utilized for R	epairs, Mo	odification, o	or Replac	ements:		
19 <u>89</u> ,	<u>n/a</u> 19 <u>n/a</u>	Addenda <u>n/a</u>	Case(s)	•				
	Responsibilities Fi							
6. Identificatio	n of Components F	Repaired, Modified,	·	ement Con	ponents	<u> </u>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
PUMP	Byron Jackson	741-S-1280	N/A	1B33		REPLACEMENT	YES	
				C001B	·········			
		<u>.</u>						
·								
7. Description S/N 318454	of Work: REPLAC	ED SEAL CARTR	DGE ASS	EMBLY S/M	V 318456	WITH NEW ASSE	MBLY S/N	
	cted: Hydrostatic	- 🗍 Pneumat	ic- 🗍 📑	Iominal Op	erating Pi	ressure- Othe	er- 🛛	
	•	st Temperature 16	_	legrees F	•	Case(s) N/A		
						•	* +	

P	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	. Remarks:
_	
N	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
<u>B</u>	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: 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, John W. Messenger , 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 9/28 2011
	Date 6/23/ , 20 09 Signed FENOC-PNPP Museum QE (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, <u>Thomas 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>ÔHIO</u>
	and employed by HST CT. OF HARTFORD CONN. have
	inspected the repair, modification or replacement described in this report on JUNE 74-20 09 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,
ļ	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 624, 20 09 Signed monthly Confissions NB 9330 "N" "I" "A" OHIO COMM.  (inspector) (National Board (include endorsements), and jurisdiction, and no.)

6/24/09 1000 1000 1000

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

. ... anuniactured and certified by BR/IP INTERNATIONAL DRC. PUMP DIV. LOS ARCELES OFFRATIONS 2300 E. VERNON AVZ., VERNON, CA 90158

MRI26707 1833-104 20 412 101 28. 2 of 2 Pg. 1 of 2

Markinactured for THE CLEVELAND ELECTRIC HILDRINATING CO. 10 CENTER ROAD, PERRY, 0410 44081

iname and address of Purchasori

3. Location of installation FRENT MULIZAR FUMER PLANT, UNIT 1 10 CENTER ROAD, DOCK NUMBER 1, NORTH PERRY, ONIO 44081

 C. Type:
 LOCALES REV. A
 SL-182 GR. Y316
 75_000 PST
 N/A
 1996

 terruning real
 terruning real
 terruning real
 terruning real
 terruning real
 (CRNI)
 (Poor built)

 5. ASMIE Codes, Section NII., Division 1:
 ** 1971
 SUBMER 1973
 1
 N/A

 ** (addition)
 ** (addition)
 (addition)
 (addition)
 (addition)

5. Fabricated in accordance with Const. Spec. (Div. 2 only) W.A. Revision W/A Date K/A

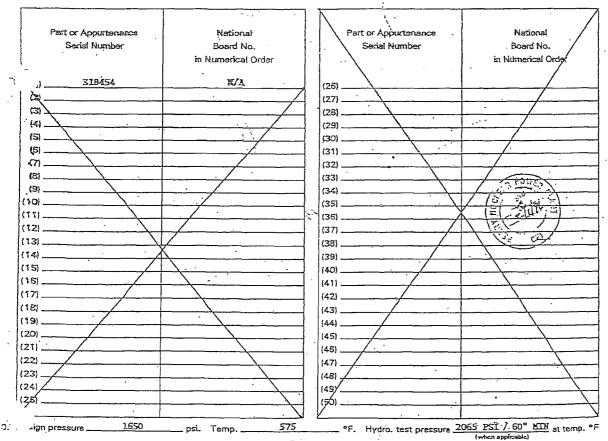
7. Remarks: BE/IP JUB NO: 95-NE-2540 KUSENCIATURE: NE-7500 SEAL CARDRIDGE ASSESSEIL.

* DESIGN ENTERIAL, FARRICATION AND STANTANTION IN ACCURANCE BUTH 1963 EDITION SUBSER 1984 ADDENIAL

8. Nom. thickness (in.) 2,625 Min. design thickness (in.) 2.500 Dia, ID (it & in.) 1 7.500 Length overall (it & in.) 0 3.105

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

:2/88)



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

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

Reprint (7/91)

#### FORM N-2 (Back — Pg. 2 of __2_)

	Certificate Holder's Serial Nos.	318454	_ through	K/A
·				
:	CERTIFICATION OF DESIGN			•
Basing and St. 15	R/A	P.E. StateR/A	Pag. 20	E/A
Design specifications certified by	(when appearant)	P.E. State	(189. 183	
Design report* certified by	K/A	P.E. State R/A	Reg. no	K/A
	(whon eppācable)		_	_
•	CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this r	eport are correct and that this (boss) 21-750	O SEEL CERTRID	GE ASSESSAT	
convicting to the rules of construction of the	·		,	-
•				
HPT Certificate of Authorization No	K-II3I Expires	JUNE	10, 1995	
Date (52.12.1996 Name 32/	IP INTERNATIONAL, INC. Signed A.	Mir Acol tauthorized	ionecounary P	eP_
	<u> </u>		<del></del>	
	CERTIFICATE OF INSPECTION		• •	
		•	•	ļ
L the undersigned, holding a valid commissio	n issued by the National Board of Boiler and Pressure AREBRICET BUTUAL INSURANCE CO., FACTORY	Vessel inspectors a	and the State or.	Province of
of ECECTOD, BRSS. have inspected	d these Items described in this Data Report on 01/	12/96	, and state	
	ate Holder has fabricated these parts or appurtenance		th the ASME Co	de, Section
· · · · · · · · · · · · · · · · · · ·	orized for stamping on the date shown above.			
	or nor his employer makes any warranty, expressed o	r Implied, concernir	ng the equipmen	nt described
31	inspector nor his employer shall be fiable in any manne			I
bee of any blind arising from or connected with	th this inspection.			
Dete 1/12/96 Signed 277	Commission	CA 1864	, NBI	(-/S
	- Authorized Inspector)	THE F DO' (RUCT BUDGE)		Po

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI										
PNPP No. 9308 F	Rev. 9/11/00	· · · · · · · · · · · · · · · · · · ·					NQI-1741			
1. Owner: _	FIRS	TENERGY CORP.				Date5-22	2-9			
_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2			
•										
2. Plant:	Perry Nucl	ear Power Plant (P	NPP)	<del></del>		Unit 1				
·	10 Center Road, Perrγ, Ohio 44081 200297167 & 200358886 (Repair Org. P.O. No., etc.)									
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR										
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u> .		Authorization No	33			
					٠.	Expiration Date !	09/28/2011			
4. Identificatio	on of System: <u>STA</u>	NDBY LIQUID CC	NTROL 1	C41			·			
5. (a) Applicat	ble Construction Co	ode: <u>ASME Section</u> NAME/SECT	ı III Class	2 DN/CLASS		19 <u>74</u> Editi	on			
WINTE	R 19 <u>75</u> /	Addenda Code	Case(s) <u>h</u>	N272, N240,	N242, N	<u>413, 1644-5, 1644</u>	-8			
(c) ASME (d) Applica 19 89 . (e) Design	Code Section XI apble Edition of Section  19 none  Responsibilities F	oplicable for Inservi on XI Utilized for R Addenda <u>non</u> Code IRSTENERGY CO	ce Inspec epairs, Me e Case(s) RP.	tion: odification, o	Ed. 1989 Ed or Replac	none none tition Addenda ements:	none Code Case(s) none Code Case(s)			
<ol><li>Identificatio</li></ol>	n of Components F	Repaired, Modified,	or Replac	ement Con	ponents	•				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped			
PIPING SYSTEM	PULLMAN POWER	1C41	108	1C41F29A	1985	Replacement	YES			
		1		<u> </u>			+			
						,	<del> </del>			
	1		<u> </u>							
<ol> <li>Description SEE REM</li> </ol>	of Work: <u>REPLAC</u> IARKS	ED VALVE S/N 8 \	<u>WITH VAL</u>	VE S/N 2.		·				
8. Test Condu	•	- 📗 Pneumat	ic- 🔲 1	Nominal Op	erating P	ressure- Oth	er- []			
	Pressure 1250 psi Test Temperature 90 degrees F Code Case(s) N-416-3									

Ρ	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	Remarks: REPLACED PIPING USING 1.5" FLANGE HT# BXU, AND 1.5" SCH 40 PIPE HT# 466565.
<u> </u>	DJUSTED HANGER 1C41-H018 BY REMOVING FW-3 AND CUTTING THE 2X2 TUBE STEEL AND
R	EWELDING FW-3.
<u>.</u> L	SED WELDING ROD ER316L HT# CT5953 & DT5953 AND ER70S-2 HT# 065905 & CP7808
7	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
<u>1</u> .	8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: 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>Michael J Teosick</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. 33 to use the "NR stamp expires 28 Sept. 20 11
	Date 22 MAY 20 09 Signed FENOC-PNPP 990 QC Tech. (name of repair organization) (authorized representative) (title)
1	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
1	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO
}	and employed by HSB CT, of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on MN 22, 20 09 and state that to
ļ	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
İ	Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
1	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
1	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 27 . 20 09 Signed Themas at June Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)
- 1	

rendratia estrutura en europarterio.

## Best available copy smf email 4/22/09

FORM NV-1 M	ANUFACTURESS DATA REGIS As Required by the Proxisions of	itorskett and safe	TYPHENE VALVES
(7	is Required by the Proxisions of	me ASME Code: Sectional	Div. 1/
1. Manufactured by TA	RGET ROCK CDRP., 19	ééÉ. Broadnollow	Re. 5 Fårfingbahe,
2 Manufactured for <u>Cl</u>	aveland Electric	Marinating Co., C	levetand; Objo
2. Location of Installation	Perry NUCTERPOST	PM HEPPerre	1460
4	1 1/2 x 2 REH S	(CSZ)	1987
(KEZ) 210-E37_ evisy .5	(Orawing No.)	(Net Leid Mod)	Tearnaghill
T _{VDE} Relief Va	No. Sones No.) 1 ve	(Magaza	147 (140 (140 )
Orifice Size .500	Szimy Relief, Pilot; Power Acquated;  Marning Intel Size.	1 1/2	n Size B
i	nch	indi	Tach.
5. Set Pressura (PSIG) _		Rated Temperatura 120	
Stamped Capacity	Sac Steam	% Gverdiestine Slowd	Street, or a
Hydrostatic Test (PSIG T. Pressura Retaining Pier		Outlet Happingsiero	Varies of Classical steps only!
and the second of the	Serial No. or Identification	Mar 445	analispesnesion
	300424	All the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Body	300387		MESA47095016174
Supplied April	79.71	276	
	292075 202989	RE	76-53547 (RE639
Striege Washess			
Adjesting Screw Spindla			And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Spring	- 6 / 5 by entrom	2,00	All areas and areas and areas areas and areas areas areas areas areas areas areas areas areas areas areas areas
Solding Other Pieces	Not Eex 3/8-45 UNC28		
Flange	202074		NE S 479-316TE 7 7
Screw Sock, Hd. Screw Sock, Hd.		ASS	NE 54198-87 I
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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								
P	NPP No. 9308 F							NQI-1741
1. Owner: FIRSTENERGY CORP. Date 4							Date4-30	)-9
	10 Center Road, Perry, Ohio 44081						Sheet 1 of	2
2.	2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1							
	10 Center Road, Perry, Ohio 44081						200261645 (Repair Org. P.O. No., etc.)	
	(Repair Org. P.O. No., etc.)							
3.	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. 33							
	Expiration Date <u>09/28/2011</u>							
4. Identification of System: RESIDUAL HEAT REMOVAL 1E12								
5. (a) Applicable Construction Code: ASME Section III Class 21974 Edition								
Ű.	NAME/SECTION/DIVISION/CLASS							
	WINTER 19 75 Addenda Code Case(s) N272, 1644-5							
	(b) Construction Code used for repairs, modifications, or replacements: 1974 W 1975 none Edition Addenda Code Case(s)							
	(c ) ASME Code Section XI applicable for Inservice Inspection: 1989 none none							
	Edition Addenda Code Case(s)							
	(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:							
	19 89 19 none Addenda none Code Case(s)							
(e) Design Responsibilities FIRSTENERGY CORP.								
6. Identification of Components Repaired, Modified, or Replacement Components								
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
-				No.			or Modification	Stamped
	PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1984	Replacement	YES
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7.	7. Description of Work: REPLACED VALVE S/N 1-52969-B WITH VALVE S/N 1-51906-A.							
	PLANT ID 1E12F0063C.							
8.	Fest Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐							
	Pressure 165 psi Test Temperature N.O.T degrees F Code Case(s) N/A							

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
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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, Michael J Tepsick , 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 11  Date 30 April , 20 09 Signed FENOC-PNPP Mach / Israel QC Tech.
Date 30 April , 20 09 Signed FENOC-PNPP Much June Of Tech.  (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Lapsholding 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 HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on 30 April 20 09 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 flable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 30 April , 20 09 Signed Thomas A Treat Commissions NB 9330 "N" "I" "A" Ohio Comm.
(inspector) (National Board (include endorsements), and jurisdiction, and no.)
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### 1E12-305

NIS-2		ER'S REPOR'					ENTS
PNPP No. 9308 F		duited by the Flow					NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 4-30	)-9
		Road, Perry, Ohio	44081			Sheet 1 of	
2. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit 1	
	10 Center F	Road, Perry, Ohio	14081			200365780 (Repair Org. P.O. N	lo etc)
						(,,,opan e.g., , e.,	,,
3. Work Perfo	,	NERGY Nuclear Ope			2	Type Code Sym	bol Stamp <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	
	٠.					Expiration Date	09/28/2011
4. Identificatio	n of System: RES	IDUAL HEAT REM	10VAL 1E	12			
5. (a) Applicat	ole Construction Co	ode: <u>ASME Sectio</u> r	ı III Class	3 2		,19 <u>74</u> Editi	on
	D 40.75	NAME/SECT			. 11440		
WINTE	R 19 /5 /	Addenda Code	Case(s) <u>N</u>	1272, N242	, N413	•	<del></del>
(h) Constru	iction Code used fo	or repairs, modifica	itions, or i	eplacemen	nts: 1974	W 1975	none
(5) 00110110		o, , opao,ooo.		ор.осоо.		ition Addenda	Code Case(s)
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Insped	ction:	1989 Edi	none Ition Addenda	hone Code Case(s)
(d) Applica	ble Edition of Secti	on XI Utilized for R	Repairs, M	odification,	or Replac	cements:	
19 <u>89</u>	19 <u>none</u>	Addenda <u>non</u>					
(e) Design	Responsibilities <u>F</u>	Code RSTENERGY CO	Case(s)				• .
	•	Repaired, Modified,		cement Co	mponents	!	•
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E12	NA	N/A	1985	Replacement	YES
		<del></del>					
			<del>-</del>	<del> </del>	<del> </del>		
	<u> </u>			<u></u>			
7. Description	of Work: MODIFIE	D SUPPORT PER	ECP 09-	246 BY MC	OVING TU	BE STEEL TO A I	NEW.
ELEVATIO	N AND REWELDI	NG USING E7018	WELD R	OD HT# 15	9443. PL	ANT ID 1E12HO5	88.
	cted: Hydrostatic			•	_	<del>_</del>	er- 🗌
Pressure N	/A psi Te	st Temperature N/	<u>'A</u> (	degrees F	Code	Case(s) N/A	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Ba	ck) IQI-1741
9. Remarks:	
NO MANAGEMATERIOTANDINO DEDECORNES DUE TO THE INTEREST CONTROL OF DADY OF CONTROL	<del></del>
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.	IION
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEI	IVED.
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 report is included on each sheet, and (3) each sheet is numbered and the number of sheets is record the front of this form.	f this
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report a correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASI Code and to the National Board Inspection Code "NR" rules.	are ME
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept. 20 11	1
Date 30 April , 20 09 Signed FENOC-PNPP Mul J QC Tech. (name of repair organization) (authofized representative) (title)	
(name of repair organization) (authofized representative) (title)	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	ļ
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 CT. of Hartford, Conn. h	- 1
inspected the repair, modification or replacement described in this report on 30 April , 20 09 and state that	to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance w	rith
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	
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspect	tion.
Date 30 April , 20 09 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm (National Board (include endorseme and jurisdiction, and no.)	<u>1.</u> ents),
	!

1E12- 306

NIS-2						REPLACEME	ENTS
PNPP No. 9308 R		quired by the Provi	Sions of th	E ASME CO	oue Section	)n XI	NQI-1741
1. Owner.	FIRST	ENERGY CORP.				Date5-4-9	9
		load, Perry, Ohio	44081			Sheet 1 of	<u>2</u>
						•	
2. Plant		ear Power Plant (P		<del></del> .	•	Unit 1	
	10 Center R	load, Perry, Ohio 4	4081			200261986 (Repair Org. P.O. N	o., etc.)
3 Work Parfo	med Dy EIDSTE	NERGY Nuclear Ope	entina Com	nany PNIDD		Type Code Symb	ool Stamp NR
J. WOLK FEILU		nter Road, Perry,				Authorization No.	. — [
				<del>·</del>		Expiration Date 0	·
4. Identification	n of System: RES	IDUAL HEAT REM	OVAL 1E	12			
•		de: ASME Section				,1974 Editio	on
		NAME/SECT	ION/DIVISIC	N/CLASS			
WINTE	R 19 <u>75</u> A	Addenda Code (	Case(s) <u>N</u>	<u>272, 1644-5</u>	<u> </u>		
(b) Constru	ction Code used for	or repairs, modifica	tions, or re	eplacement	s: 1974	W 1975	none
		·	•		Edi	tion Addenda	Code Case(s)
(c) ASME (	Code Section XI ap	plicable for Inservi	ce Inspect	ion:	<u>1989</u> Edi	none tion Addenda	none Code Case(s)
(d) Applicat	ole Edition of Secti	on XI Utilized for R	tepairs, Mo	odification, o	or Replac	ements:	
. 19 <u>89</u> .	19 <u>none</u>	Addenda <u>non</u> Code	e Case(s)				
	,	RSTENERGY CO		<del></del>	<u>:</u>		
6. Identification	of Components F	Repaired, Modified,	·	ement Con	nponents	<del>, </del>	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING	PULLMAN	1E12	83	N/A .	1984	Replacement	YES
SYSTEM	POWER						
					<u> </u>		
						·	
7. Description	of Work: REPLAC	ED VALVE S/N 2-	52969-B V	VITH VALV	E S/N 2-5	51001-A	· 
	1E12FO063B.						·
	cted: Hydrostatio			•	-		er- 🗌
Pressure 31	<u>15                                    </u>	st Temperature N	.O.T c	degrees F	. Code	Case(s) N/A	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
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, Michael J Tepsick , 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 11
Date 4 MAY , 20 09 Signed FENOC-PNPP Med & Fand QC Tech.
(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 ofOHIO
and employed by HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on 30 April 20 09 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 09 Signed Thomas A Trans Commissions NB 9330 "N" "!" "A" Ohio Comm.
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

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1E12-306 SHEKT 2:0F Z

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

Pg. 1 of _2

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1, Manufactured and certified by				<del></del>
	· Insis a	ನ್ನ ಪರ್ವಜನ ಜೆ N Cಆಟ್ ಡಾಟ	( HOUSE)	
2. Manutactured for Frs. Energy	e Commission 10 Center E	PO BOY ET NOTE DE	THE ACTES	
		e and address of Purchas		
		<ul> <li>* 1838 \$1.50 \$25.</li> </ul>	· (基本學者)	
<ul> <li>1. Location of installation Perry!</li> </ul>	Victies Power Plant 100		North Perry OH 44081	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(name and address)	E KARAMPALITYA K	
4. Model Na., Series No., or Type	Front Olivia Charte Viela		070-A Rev. 03	CRN N/A
". Alone May Series May or Type	THE THE PROPERTY		orpa in a Rev. 100	CHA NOTE
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5. ASME Code, Section III, Division		Wester 1975	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
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7. Material: Body SA216-WCS	Bonnet N	/A Disk	SLAST-CASNU Botting	- PUA
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Cert	11271	Body	Bonnet	Disk
Holders Region	. Board	Senal -	Serial .	Serial
Serial No.	No.	No.	No.	. No. 1
2-51001-A	N/A	HT # 0264	NA	HT. # 0263
	<del>- 102</del>	S/N: R71	***************************************	S/N: R73 & R74
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5. Cold working pressure 747 ps x 10	🚅 이 집을 위한 일반적으로 할 때 소설과 이 아니다. 이 사고 되어 있다.
5. Cold working pressure 747 ps at 10	
16. Hydrostatic lest 115 psi. Desk differentia	test pressure 575 psi
11. Remarks: Pro Retainers \$4 475-410 HT# : 150	352 TR# 117D
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	CERTIFICATION OF DESIGN
Design specification certified by Hom R Records	P.E. State PA Reg. no. 24973-E
11 4 21 4 1	F.E. State N/A Rep. no.: N/A
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	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 ASIAE Code.
Section M. Division 1	
N Certificate of Authorization No N-2505	Ex-re 1-104
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Consti
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(1) For manually operated values only

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	NIS-2						REPLACEME	ENTS
Р	NPP No. 9308 R		quired by the Provi	sions of all		oue Secu	JII ()	NQI-1741
1	. Owner:	FIRST	ENERGY CORP.				Date5-4-	9
		10 Center F	toad, Perry Ohio	44081			Sheet 1 of	2
2	Plant		ear Power Plant (P		<del></del>		Unit <u>1</u>	
		10 Center N	toad, Perry, Ohio 4	4081	<del></del>		200262065 (Repair Org. P.O. N	lo., etc.)
3	Work Perfo	rmed By: FIRSTE	VERGY Nuclear One	erating Com	nany PNPP	·	Type Code Symb	ool Stamp NR
		•	nter Road, Perry,				Authorization No.	
					-		Expiration Date (	
4.	Identification	n of System: RES	IDUAL HEAT REM	10VAL 1E	12			
5.	(a) Applicab	le Construction Co	de: ASME Section	n III Class	2		19 <u>74</u> Editi	on
			NAME/SECT	ION/DIVISIO	N/CLASS			
	WINTE	R 19 <u>75</u> A	Addenda Code	Case(s) <u>N</u>	<u>272, 1644-</u>	5		
	(b) Constru	ction Code used fo	or repairs, modifica	itions, or r	eplacement	ts: <u>1974</u>	W 1975	none
	•					· Edi	tion Addenda	Code Case(s)
	(C) ASME	Code Section XI ap	plicable for inservi	ce inspec	Jon:	<u>1989</u> Edi	none tion Addenda	none Code Case(s)
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		Responsibilities <u>Fi</u>		• .		<del></del>		50 Fat 1000 -
6. r	Identification	of Components F	Repaired, Modified,		ement Cor	nponents		T
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1984	Replacement	YES
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7 7	Description	of Work: REPLAC	ED VALVE S/N 1	52183-Δ V	VITH VAI V	E S/N 3-5	J	
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8.		cted: Hydrostatic	- Pneumat	tic- 🗍 🛘 I	Nominal Op	erating P	ressure- 🛛 Oth	er- 🔲
	Pressure 17	<u>6</u> psi · Te	st Temperature N	.O.T (	degrees F	Code	Case(s) N/A	· .
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NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS	S (Back) NQI-1741
Q Pamarke	
9. Remarks:	····
	<del></del>
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, sketch drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 throughout is included on each sheet, and (3) each sheet is numbered and the number of sheets the front of this form.	gh 6 of this
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in thi correct and the repair, modification or replacement of the items described above conforms to Section XI c Code and to the National Board Inspection Code "NR" rules.	is report are of the ASME
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept.	20 11
Date 4 MAY , 20 09 Signed FENOC-PNPP 9M 1 2 QC T (name of repair organization) (authorized representative)	Tech.
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CERTIFICATE OF INSPECTION/INSERVICE INSPECTION .	,
I, Thomas G. Laps , holding a valid commission issued by The National Board	f of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO	<b>I</b>
and employed by HSB CT. of Hartford, Conn.	
inspected the repair, modification or replacement described in this report on 30 April 20 09 and st	
the best of my knowledge and belief, this repair, modification or replacement has been completed in according	ordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	1
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or in	nplied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall	Il be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with the	nis inspection.
Date 5/5, 20 09 Signed Thrull Hour Commissions NB 9330 "N" "I" "A" Oh (National Board (include e and jurisdiction, ar	endorsements),

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### FORM NPV-1 CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of _2

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. Manufactured and certifi	ied by: Alwand & 1/		anal St., Salem, MA		197						
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		(name and add	dress of N Certificate	Holder)	*						
Manufactured for Service	Englas Companion of Co-	Pd	Morth Derry DL 44	381							
manufactured for Frst I	Energy Corporation, 15 Cent		address of Purchase								
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Location of installation_F	Perry Nuclear Power Plant	10 Center Road Doo	ck No. 1 North Perry	OH 44031	4.						
		, (ust	me and address)								
Model No., Series No., or	r Type <u>Dual Plate Check V</u>	<u>/alve</u> Drav	ving_50079_A	Rev01	CRN N/A						
ASME Code, Section III, I	Division 1: 1974	Winter 197	5 2		N/A						
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Pump or Valve Valve	Nominal inlet size	8 Outlet size									
		(in.)	(In.)	· .							
Material: Body SAZ15	5-WC3 Bonnet	N/A	Disk SA487-CA	.6NM Bolting	N/A						
2007											
(a)	(b)	(c)		(d)	(e)						
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Remarks: Pin Retainers SA 479-410 HTE G1942 TRE TZD  CERTIFICATION OF DESIGN  P.E. State PA. Reg. no. 24928-E resign report certified by Hiram R. Record reno explicated resignation certified by N/A P.E. State PA. Reg. no. N/A  P.E. State N/A Reg. no. N/A  P.E. State N/A Reg. no. N/A  P.E. State N/A Reg. no. N/A  P.E. State N/A Reg. no. N/A  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  Description III, Division 1.  Certificate No. N-7506  Expires 8-13-04  Normal Aread 8 Mortil Co. Inc. Signed (astronomy valve conforms to the rules for construction of the ASME Code, ection III, Division 1.  CERTIFICATE OF DISPECTION  Alternative representations  Normal Aread 8 Mortil Co. Inc. Signed (astronomy valve conforms and be state of Professed Normal Resource Representations)  CERTIFICATE OF DISPECTION  And CERTIFICATE OF DISPECTION  CERTIFICATE OF DISPECTION  (astronomy representations)  (astronomy representations)  CERTIFICATE OF DISPECTION  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy representations)  (astronomy represe	(pressure) (ter	nperature)		•	200
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CERTIFICATE OF COMPLIANCE  /e 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, ection III, Division 1.  Certificate of Authorization No. N. 256  Expres 6-13-04  Name Alveod & Mortil Co. Inc. Supred (authorization No. N. 256)  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  The undersuped, Noting a valid commission issued by the National Board of Bodger and Pressure Vessel inspectors and the Sate or Province of the undersuped is and empt good by H. S. B. L. & L. Co. of Hatfood CT. have inspector and the sate or Province of Hatfood CT. have inspector in your owned to the certificate Hocker has constructed in Data Report on a July 2.7 (20)  and state that to the best of my knowledge and belief, the Certificate Hocker has constructed in the certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described is an Data Report, Furthermore, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described is any kind artisting from or connected with this inspection on his employer shall be liable in any manner for any personal injury or property damage or learny kind artisting from or connected with this inspection or price and provided in the personal injury or property damage or learny kind artisting from or connected with this inspection on the connected with this inspection on the personal injury or property damages or learny kind artisting from or connected with this inspection on pies employer shall be liable in any manner for any personal injury or property damages or learny kind artisting from or connected with this inspection on pies employer and the state of the personal injury or property d	esign report certified byN/A		E State N/A Reg. no.	<u> N/A</u>	
CERTIFICATE OF COMPLIANCE  Accepting that the statements made in this report are extract and that pump or valve conforms to the rules for construction of the ASME Code, ection III, Division 1.  Cestificate of Authorization No. N. 7506  Express 8-13-04  Name Avecod & Mortifi Co. Int. (N. Centricate Hotoin)  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICAT	<del></del>	(with appoint)			
CERTIFICATE OF COMPLIANCE  Legies for construction of the ASME Code, ection III, Division 1.  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, ection III, Division 1.  Certificate of Authorization No.  N. 2506  Expires 6-13-04  Name Almood 8 Morth Co. Inc.  Supred  (N. Centracte Holon)  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPE	1 ₁ + 12+	the state of the state of	19 L V 10 17 17 17 17 17 17 17 17 17 17 17 17 17	•	
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Ve 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, ection III, Division 1.  Cestificate of Authorization No. N. 2506 Expres 6-13-04  Name Aveod 8 Mortili Co. Inc. Signed  Aveod 8 Mortili Co. Inc. Signed  Aveod 8 Mortili Co. Inc. Signed  Aveod 8 Mortili Co. Inc. Signed  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICATE OF INSPECTION  CERTIFICAT	· -	CERTIFICATE DE CON		•	
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CERTIFICATE OF INSPECTION  The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Assessituated and employed by H. S. B. L. B. L. Co. of Halfdord CT. have impected the pump, or valve, described a size Data Report on July 27 (20) and state that to the best of my knowledge and belief, the Certificate Holder has constructed in size Data Report on July 27 (20) and state that to the best of my knowledge and belief, the Certificate Holder has constructed in temporary for the second with the ASME Code, Section III, Division 1.  The province of inspect of the province of the second province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the province of the p	rate Col Liff Name	Alwood & Mortill Co. Inc.	Signed Second	USUPL-	
CERTIFICATE OF INSPECTION  The undersigned, holding a valid commission listed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H. S. B. L. B. L. Co. of "Hartford, CT" have impected the pump, or valve, described a six Data Report on JUN 27 (20)" and state that to the best of my knowledge and belief, the Certificate Holder has constructed in six Data Report on the SAME Code, Section III, Division 1.  The province of the Certificate, neither the inspector nor his employer makes any warranty, expressed of implied, concerning the equipment described in 20 bat a Report, Furthermore, neither the inspector nor his employer shall be false in any manner for any personal injury or property damage or lost any kind artising from or connected with this inspection.  APRIOR Signed Walley W. W. Commission APR 133.7		(N Certificate Holder)	jauthen	red representative)	
the undersigned, holding a valid commission lessed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachupetts and employed by H. S. B. L. B. L. Co. of Halfford CT. have inspected the pump, or valve, described a six Data Report on July 27 (200) and state that to the best of my knowledge and belief, the Certificate Holder has constructed a six Data Report on July 28 (200) and state that to the best of my knowledge and belief, the Certificate Holder has constructed a six possessing the secondance with the ASME Code, Section III, Division 1.  Y signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described is an Data Report, Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or properly damage or local report, Furthermore, neither the inspector on his employer shall be liable in any manner for any personal injury or properly damage or local report. Furthermore, neither the inspector on his employer shall be liable in any manner for any personal injury or properly damage or local report. Furthermore, neither the inspector on his employer shall be liable in any manner for any personal injury or properly damage or local report. Furthermore, neither the inspector on his employer shall be liable in any manner for any personal injury or properly damage or local report.		"由市社"的建筑经验是1970年底	<b>到的数据集集计划。</b>	the second of the second	A Company
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachunetts and employed by H. S. B. L. E. L. Co. of Hatflord CT. have inspected the pump, or valve, described in its Data Report on July 2.1 (20) and state that to the best of my knowledge and belief, the Certificate Holder has constructed in mp, or valve, in accordance with the ASME Code, Section III, Division 1.  Y signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in any manner for any personal injury or property damage or locally from or connected with this inspection.  And I state of the Certificate of the personal injury or property damage or locally kind affairing from or connected with this inspection.  And I state of the Certificate of the State of the Certificate in any manner for any personal injury or property damage or locally kind affairing from or connected with this inspection.  And I state of the Certificate in the Certificate in any manner for any personal injury or property damage or locally kind affairing from or connected with this inspection.  And I state of the Certificate in the Certificate in any manner for any personal injury or property damage or locally kind affairing from or connected with this inspection.  And I state of the Certificate in the Certificate in any manner for any personal injury or property damage or locally kind.  Commission And I state of the Certificate in any manner for any personal injury or property damage or local injury or property damage.  And I state of the Certificate in any manner for any personal injury or property damage.	ST SECTIONS AND	VA-2	er en la la la la la la la la la la la la la		724 1. 4 9
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	NIS-	2/NR-1 OWNE	ER'S REPOR					ENTS		
P	NPP No. 9308	Rev. 9/11/00		1310113 01 1				NQI-1741		
1.	Owner:	FIRS.	TENERGY CORP.				Date 6/8/2009			
		10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2		
2.	. Plant:	Perry Nucl	ear Power Plant (F	PNPP)			Unit 1			
3.	Work Performed By: _FIRSTENERGY Nuclear Operating Company PNPP									
	. •	_ 10 Ce	enter Road, Perry,	Ohio 4408	31	_	Authorization No	33		
•							Expiration Date :	2/28/2011		
4.	-Identificat	ion of System: <u>1E1</u>	2 Residual Heat R	emoval						
5.	(a) Applica	able Construction Co					19 <u>74</u> Editi	on .		
		ER 19 75 7	NAME/SECT			00 N 004	N 242 N 272 N			
	<u> </u>	ER 19 /5 /	Addenda Code	Case(s)	1044-5, 17	ZO, IN-ZZ4	<u>, N-242, N-272, N-</u>	210, IN-282,		
	N-416-1, I	V-413								
•	(b) Const	ruction Code used for	or repairs, modifica	ations, or r	eplacemen		W75 tion Addenda	N/A_ Code Case(s)		
	(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:		NONE	N/A		
						Edi	tion Addenda	Code Case(s)		
	, , , , , ,	able Edition of Secti		•	odification,	or Replac	ements:			
		<u>, N/A</u> 19 <u>N/A</u>	Cod	e Case(s)			•	·		
_		n Responsibilities <u>F</u>					•			
6.	Identificati	on of Components F	Repaired, Modified		cement Cor	nponents		<del></del>		
١	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code		
-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	337.27.13.	No.	1	<del> </del>	or Modification	Stamped		
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ł	Piping System	Pullman Power	1E12	83	N/A	1985	replacement	yes		
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7.	Description	n of Work Replaced	6" diameter checl	k valve wil	h new chec	k valve S	/N 3-52969-A <u>.</u>	{		
0	Total Consider				Nominal Or	· · · · · · · · · · · · · · · · · · ·				
٥.	Test Cond Pressure	•	- ☐ Pneumai st Temperature A		vominai Op degrees F	J	ressure- ⊠ Oth Case(s) N/A	er- 📙		
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NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQL-1741
9. Remarks: NA
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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, JOHN W. MESSENGER, 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 2011  Date 6/8/2009 Signed FENOC-PNPP QC (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  and employed by HSB CT of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on 2009 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 6/10, 20 04 Signed Thomas 12 Commissions NB 9330 "N" "!" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

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1812-308 20F2

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

Pg. 1 of <u>2</u>

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	Sad his Mais Value	·.	., 285 Canal St. Salem, MA	01070
Manufactured and certif	fied by:vveir valve		s of N Certificate Holder)	. 01970
2. Manufactured for First	Concrete Corporation 10 Co	ntor Pd PO Pay 07 N	Jordh Perov OH 44081 · ·	
2. Mandiactured for First	PENERGY CORPORATION, TO CE		dress of Purchaser)	
3. Location of installation_	Perry Nuclear Power Plant,		No. 1. North Perry OH 440	81
		(name a	nd address)	
4. Model No., Series No., c	or Type <u>Dual Plate Check</u>	Valve Drawi	ng 11949-01	Rev. <u>04</u> CRN <u>N/A</u>
5. ASME Code, Section III,	Division 1: 1974	Winter 1975	2	N/A
	(edition)	(addenda date)	(class)	(Code Case no.)
6. Pump or Valve <u>Valve</u>		6 Outlet size _	(in.)	
7. Material: Body SA216	6-WC8 Bonnet	N/A	Disk SA487-CA6NM	Bolting N/A
		, , ,		
(a)	(b)	(c).	( d )	(e)
Cert	Nat'l	Body	Bonnet	Disk
Holder's	Board	Serial	Serial	Serial
Serial No.	No.	No.	No.	'No.
3-52969-A	N/A	HT. #:87643	N/A	HT. #:87506
- 3-32363-A	INA	RT#: 75244		RT#: 75221 &
• •	•	K1#175244	•	
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^{*} Supplemental information in form of lists, sketches, or drawings may be used provided (1) size 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

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

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

Certificate Holder's Serial No. 3-52959-A
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 lest 1125 psi. Disk differential test pressure 825 psi
11. Remarks: Pln Retainers SA 479-410 HT# : 504420 TR# 151D
CERTIFICATION OF DESIGN
Design specification certified by Hiram R. Reppert P.E. State PA . Reg. no. 24928-E
Design report certified by N/A P.E. State N/A Reg. no. N/A (when applicable)
(wneл ардикавіе)
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
N Certificate of Authorization No. N-2606 Expires 6-13-07
Date 1000 Name WEIR VALVES & CONTROLS USA INC. Signed
Though Day
(N Certificate Holder) (authorized representable)
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 HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on // C 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 Joss of any kind anying from or competed with this inspection.
Date 11/406 Signed Cut Danger MA 1651 A, B, N. I
(Authorized Inspector) ( Nat1, Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

1E12-309

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI									
Р	NPP No. 9308 F							NQI-1741		
1	. Owner:	FIRST	ENERGY CORP.		···-		Date <u>6-16</u>	-9		
		10 Center F	Road, Perry Ohio	44081			Sheet 1 of	3		
2	2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1									
3.	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP  Type Code Symbol Stamp NR									
		10 Ce	enter Road, Perry,	Ohio 4408	1		Authorization No.			
							Expiration Date (	09/28/2011		
4.	Identificatio	n of System: RES	SIDUAL HEAT REM	MOVAL 1E	12					
5.	(a) Applicat	ole Construction Co	ode: <u>ASME Section</u> NAME/SECT	III Class	2 N/CLASS	w	,19 <u>77</u>	on		
	SUMM	ER 19 <u>77</u> A	Addenda Code	Case(s) <u>N</u>	ONE .	1175.02				
	(b) Constru	uction Code used fo	or repairs, modifica	itions, or r	eplacement		W 75 tion Addenda	none Code Case(s)		
	(c) ASME	Code Section XI ap	plicable for Inservi	ce Inspec	tion:	<u>1989</u> Edi	none tion Addenda	none Code Case(s)		
		ble Edition of Section 19 none			odification,	or Replac	ements:			
	•		Code	e Case(s)						
6.		Responsibilities. <u>FI</u> n of Components R	•				en e ja Maraia	, <del></del> .		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat, Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped		
	VALVE	DRESSER	H110AAS	N/A	1E12 F0084B	1981	Replacement	YES		
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-		·								
L 7	Description	of Work: REBUILT	VALVE SIN H110	AAS USII	JG SPRING	וט טאט ב	SC FROM VALVE	·		
٠.	S/N H109A	<del></del>	· · · · · · · · · · · · · · · · · · ·		01 101140	- 1 11 - 11 11	OO I MOIN VALVE			
8.	Test Conduc		- 🗌 Pneumat	ic- 🔲 1	Vominal Op	erating P	ressure- 🔲 Othe	er- 🗌		
	Pressure N	•	st Temperature N		legrees F	Code	Case(s) N/A	· · · · · · · · · · · · · · · · · · ·		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQL-174	¥1
9. Remarks:	
5. Nomano.	-
	-
	_
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 the front of this form.	on
CERTIFICATE OF COMPLIANCE	
I, <u>Michael J Tepsick</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. 33 to use the "NR stamp expires 28 Sept. , 20 11	
Date 16 JUNE, 20 09 Signed FENOC-PNPP Multiple June 1 QC Tech.  (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_CT. of Hartford, Conn. have	
inspected the repair, modification or replacement described in this report on JUNE 12, 20 09 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	1
any manner for any personal injury, property damage of loss of any kind arising from or connected with this inspection.	
Date 622, 20 09 Signed Thermus 3-491 Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)	

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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										
PNPP No. 9308 I					i		NQI-1741			
1. Owner.	FIRS*	TENERGY CORP.				Date 5/25/200	9			
_	10 Center F	Sheet 1 of								
2. Piant	Perry Nucl	ear Power Plant (F	PNPP)	****		Unit 1				
	10 Center F	Road, Perry, Ohio 4	14081			Order 20019914				
•	. (Rapair Org F O. No., etc.)									
3. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Ob	erating Con	ngany PNPP		Type Code Sym	bol Stamp <u>NR</u>			
•	. 10 Ce	enter Road, Perry.	Ohio 4408	<u>.</u> <u>1</u>		Authorization No	33			
		·	•		-	Expiration Date	9/28/2011			
4 Identification	on of System: <u>1E12</u>	Residual Heat Re	emoval	•						
		•	_							
5. (a) Applical	ble Construction Co	ode: ASME SECTI NAME/SECT	ON III CL	ASS 1 DN/CLASS	<del>,</del>	19 <u>74</u> Edit	on			
WINTE	R 19 75 /	Addenda Code	Case(s)	1644-5, 172	28. N-224	N-242, N-272, N-	275, N-282,			
N-416-1, N	-413		. ,							
	uction Code used for	or repairs, modifica	ations, or r	eplacement	s: 1974	W75	N/A			
		•				tion Addenda	Code Case(s)			
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	1989 Edi	NONE tion Addenda	N/A Code Case(s)			
. (d) Applica	ble Edition of Secti	on XI Utilized for R	Repairs, M	odification.						
	N/A 19 N/A		•							
		Code	e Case(s)	•		express a Spacer of				
	Responsibilities <u>F</u> n of Components F		or Poplar	coment Con	nnonnate					
	· · · · · · · · · · · · · · · · · · ·	ı	Nat	<del></del>	· · · · · · · · · · · · · · · · · · ·	Poppir	ASME			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other ID.	Year Built	Repair, Replacement,	Code			
	<del> </del>		No	<del> </del>		or Modification	Stamped			
				<u> </u>			<u> </u>			
Piping	Pullman Power	1E12	B3	N/A	1985	Replacement	yes			
System										
	ł		}							
				<u> </u>						
	<u> </u>		J	<u> </u>						
	of Work: Modified  11 using the followi									
Reducing Tee	HL Tr.# MCWZ-2,	1-8" 150# Gate Va	alve S/N B	E499, and '	1- 8" S/40	S Pipe Elbow Ht T	r.# MJRG-1			
using weld rod	Ht. # P2765, DM78	332, 8882.	٠							
	•	_								
8. Test Condu				Nominal Op	•		er- 🗌			
Pressure	NOP psi Tes	st Temperature 95	5	legrees F	Code	Case(s) · <del>N/A</del>	416-3			

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
. Remarks: NA
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
ote: 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, JOHN W. MESSENGER, 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 2011
Date 6/25/2009 Signed FENOC-PNPP (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thornas 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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on buse 2620 09 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 2.6, 20 cc Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm.  (National Board (include endorsements), and jurisdiction, and no.)

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1. Manufactured and certified	by Howserve Corporation, 1	900 South Saunders St. Rai	leigh, NC 27603	
	Energy Corporation PO Box 61	inama and address 13-07-61 Johnstown, PA	100	
		lo example and eddress of	Purchaser	
3. Location of installation	Peny Nudear Power Plant 1	LO Center Road Perry, Ol	44081	
4. Model No., Series No., or	Type 150 Dr	awing 06-40687-10	. RevB	CRN N/A
5. ASME Code, Section III, D	Ivision 1: 1974	Winter 1975	3 , (closs)	N/A (Code Case no.)
6. Pump or valve Valve	Nominal Inlet size _	•		(COST NO.)
7. Material:	1, CF8 Bonnet SA351, CF8			
. (0) Cort. Holder's Sørløl No.	(b) Nat'l Board No,	(c) Body/Casing Serial No	(U) Bonnal/Cuver Serlal No.	(n) Disk Seriol Nu.
BE499	N/A	CJHR-4	BZBL-1	BXXX-1
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FORM MPV-1 (Back — Pg. 2 of 2

			· Ce	rdiicate Kolder's Serial No	BE499
0 D-1 7-1	150	217		150	
S. Design conditions	(p:essure)	(Ismpsreture)	. °F or valve pressure class	s — 120	
9. Cold working pressure _	275	psi at 100°F		·	
18. Hydrostatic test 425	psi. [	Disk differential test pressu	are 325		psi
11. Remerks: Sales Order 40	0587 Item 10			•	
Boltáno is as follows: St	uds. SA 193-67, H	t Trace Code ZE33			
Nuts. SA194-2H, Heat	Trace Code OW62				
				<u> </u>	
		<u> </u>			
	<del></del>	CERTIFICATIO	N OF DESIGN		
	W 🛱 a		,	OH.	40770
Design Specification certifie	d by	isoury		P.E. State OH Reg. no	
Design Report certified by _		<del></del>		P.E. State Reg. no	
C					
		CERTIFICATE OF	COMPLIANCE		
We certify that the stateme	ents made in this	report are correct and th	at this pump of valve co	onforms to the rules for cons	truction of the
ASME Code, Section III, Div	vision 1.		:	. 26.00	
N Certificate of Authorization	n No	N-1562	Expires1	1-50-03	
2/12/08	Flowserve	Corporation		7110	
Date 3/12/08 N	ame	(N' Certificate Holder)	Signed	authorized representative	{
	· · · · · · · · · · · · · · · · · · ·				
			<del></del>		····
	·	CERTIFICATE O	F INSPECTION		
of NC and er	nployed by		HSB CT	Vessel Inspectors and the St	
of.	Hartford, CT		_ have inspected the pun	np, or valve, described in this l	Data Report on
3/12/08	, and state that i	to the best of my knowled	ge and belief, the Certificat	e Holder has constructed this p	oump, or valve,
in accordance with the ASM					. 1
			•	mplied, concerning the compo	<b>I</b>
or a loss of any kind arising		· · · · ·	nail os liable in any manne	er for any personal injury or pr	operty damage
Date 3/12/08 . Si	gned Rush	orized Nuclear Inspectori	_ Commissions	549 1. Bd. (Incl. endorsements) and stell or ;	or one ne.)

#### 1E12-311

NIS-	2/NR-1 OWNE	R'S REPOR					ENTS
PNPP No. 9308	3 Rev. 9/11/00	quires by the 1 lov		ie voint o			NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>7-2-9</u>	
-	10 Center F	Road, Perry Ohio	44081			Sheet 1 of	6
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>one</u>	
-	10 Center F	Road, Perry, Ohio 4	14081	<del></del>		ORDER 200199 (Repair Org. P.O. N	
						. , ,	
3. Work Per	formed By: FIRSTE					Type Code Symi	
	10 Ce	enter Road, Perry.	Ohio 4408	<u>11</u>		Authorization No	
						Expiration Date (	09-28-2011
4. Identificat	ion of System: 1E1:	2 RESIDUAL HEAT	T REMOV	AL			
5. (a) Applica	able Construction Co					19 <u>74</u> Editi	on .
"\MINT	ER 19 75 /	* NAME/SECT		-	1 N272 N	-413,1644-5,1728,	NO75
N282				-242,14-22	:, V=Z/Z, V	15, 1044-5, 172b,	<u>INZ / J,</u>
	ruction Code used for	or repairs, modifica	tions, or r	eplacemen	ts: 1974	winter 75	*
					Edi	tion Addenda	Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inservi	ce Inspec	tion:	<u>1989</u> Edi	no tion Addenda	n/a Code Case(s)
(d) Applic	able Edition of Secti	on XI Utilized for R	epairs, M	odification,	or Replac	ements:	
19 <u>89</u>	<u>, n/a 19 n/a</u>	Addenda <u>n/a</u>	Case(s)	·			
(e) Desig	n Responsibilities <u>F</u>			Company	PNPP		
E Idontificati	on of Components F	Danaised Madified					
<u></u>	on of Components F	1	,	<del></del>	nponents		1
Name of Componen	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power	1E12	83	1E12	1985	Replacement	Yes
		,			<u> </u>		
	<del> </del>		. ,				
L	<u> </u>		<u> </u>		<u> </u>		
	n of Work: See remain				–		
8. Test Cond	•					ressure x . Oth	er- 🗌
Pressure	<u>145                                    </u>	st Temperature <u>6</u> ·	1	degrees.F	Code	Case(s) <u>N-416-3</u>	<del></del>

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
P. Remarks: Modifications made for the ADHR system per requirements of ECP 04-0270 -01 using the following SME parts: 10" PIPE HT# A20028 & B66952, 10" GATE VALVE S/N BE555 & BE469, SWAY STRUTS S/N 2006-126, 2006-128, 2006-138 (2006-140, 2006-143, 4X4X1/4 STEEL TUBE HT# L2379, ½" PLATE HT # 8103343, 11/4" PLATE HT # 6103685, SNUBBER S/N 4616493/072, 10" 90 DEG. ELB HT # S307AA, & N232E, TEE 18"X10"X18" HT# 2B3E1D3W4, TEE 16"X10"X16" HT# 2B3E1A3F4, 4" PLATE HT # U8551/1A, LOAD STUD PSA 10 HT #CMN, JAM NUT PSA 10 HT 3 BSL.
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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, Michael J Tepsick 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 9-28 20 11 Date 2 July 20 09 Signed FENOC-PNPP (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION  I, Thomas 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 CT. • of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on 2 July, 20 09 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 July , 20 09 Signed Through Commissions NB 9330 "N" "I" "A" OHIO COMM, (National Board (include endorsements), and wind clinic and on )

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1E12-311 20F6

بحرست

#### 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

		SIOITS OF THE ADMIC CO	ue, section in, preision	Pg. 1 of
Manufactured and certification	ed by Flowserve Corporation,	1900 South Saunders St. Ri	aleigh, NC 27603	
2. Manufactured forFus	t Energy Corporation PO Box 6	TOO JOHNSOWN, PA 1590/-C	1 Purchaser)	
	Perry Nudear Power Plant			
3. Location of installation	Pary Housean Folker Frank	Inome and	epqueis)	<del></del>
4. Model No., Series No., o	т Тура С	Drawing <u>05-40687-02</u>	RevE	CRN N/A
5. ASME Code, Section III, i	Division 1: 1974	Winter 1975	2	. N/A
	Division 1: (edition)	(siddends date)	(class)	(Code Casa no.)
6. Pump or valve Valve	Nominal inlet size	10 Outlet si	ize 10	
7, Meterial:				
(a) valva Body SAZ	16-WCB Bonnet 5A216-WCB	Disk 5A216-WCB 8	olting SA193-B7	,
(b) pump Casing	Cover	Bolting		
· (a)	{b}	ts)	(d)	(0)
CorL	Nat'l	Botly/Casing	Bonnet/Cover	Diak
Holder's Serial No.	Board . No.	Serial No.	Serial No.	Scrìat No.
	<u> </u>			
BE555	NA	BYGV-1		BXXW-3
		·	<del></del>	
<del></del>			<del></del>	<del></del>
				· <del></del>
	<del></del>			
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				<del></del>
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				<u> </u>

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

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

		Cer	tificate Holder's Serial No.	BESSS
8. Design conditions 600 pressure)	rsi	F or valve pressure cless	300	
9. Cold working pressure	psi at 100°F			
10. Hydrostatio test 1125 psi, C	Disk differential test pressul	750		psi
11. Remarks: Sales Order 40687 Item 005 Bolting is as follows: Studs, SA 193-	P7 Ht Trans Code 7876			<u></u>
Nuts, SA194-2H, Heat Trace Code 2831	DI, THE THEE CODE 2570			
	CERTIFICATION			
Design Specification certified by W. Fle	nsburg		P.E. State OH Reg.	no. 49729
Design Report certified by			P.E. State Reg.	no
We certify that the statements made in this ASME Code, Section III, Division 1.  N Certificate of Authorization No	N-1562	• •	onforms to the rules for co	nstruction of the
Date 5/29/08 Name Howserve	Corporation (N Centricete Holder)	Signed C	Janesce K. Her	ves
•		,		
	CERTIFICATE OF	INSPECTION		
I, the undersigned, holding a valid commission of NC and employed by	issued by the National Bo	ard of Boiler and Pressure HSB CT	Vessel Inspectors and the	State or Province
of Hartford, CT			np, or valve, described in the e Holder has constructed thi	' '
in accordance with the ASME Code, Section III,	Division 1.			
By signing this certificate neither the inspector in this Data Report. Furthermore, neither the ins				
or a loss of any kind arising from or connected		ши ос ваме и ану плание		biobard damage
Date 5/29/08 Signed	2	_ Commissions	161549	ľ
(Aby	norized Huckens Inspection	Nat	). Bd. (incl. andorsements) and state	or prov. and no.[

1E12-311 3 OF G

		ERS' DATA REPORT FOR		
			s of N Cerdicate Holder)	
	•	6100 Johnstown, PA 15907-6 Iname and address of ht 10 Center Road Perry, O	Purcheser)	
Location of installation     Model No., Series No., or		Drawing 06-40687-02	acidress)	CRN N/A
5. ASME Code, Section III, Di	1074	Winter 1975	2	N/A (Code Care no.)
6. Pump or valve Valve				(Coor Lase no.)
7. Material: (a) valve Body SA21(b) pump Casing		B Disk SA216-WCB Bo	olting <u>SA193-87</u>	
(a) Cert. Holders Serial No.	ib) Nar'i Board No.	(c) Body/Casing Serial No.	(d) Bonnst/Cover Sertal No.	(c) - Dist Serial Nc.
BE469	N/A	BYGT-1	CONN-10	BXKW-2
	-			
-				

* Supplemental Information in the form of lists, excetches, or drawings may be used provided (1) size is 8½ x 1), (2) Information in Items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

	Certificate Holder's Serial No. BE459
8, Design conditions 200 psi 358 F or valve	pressure class 300
9, Cold working pressure psi at 100°F	
10. Hydrostatic test 1125 psi. Disk différential test pressure 750	psl psl
11. Remarks: Sales Order 40587 Item 003  Bolting Is as follows: Studs, SA 193-B7, Ht Trace Code Z876  Nuts, SA194-2H, Heat Trace Code Z831	
CERTIFICATION OF DESIG	SN .
	P.E. State OH Reg. no. 49729 P.E. State Reg. no
CERTIFICATE OF COMPLIA	NCE
We certify that the statements made in this report are correct and that this pun ASME Code, Section III, Division 1.  N Certificate of Authorization No. N-1562	
Date //3/08 Name - Flowserve Corporation (N Certificate Holder) .	Signed (authorized representative)
· CERTIFICATE OF INSPECT	ON
I, the undersigned, holding a valid commission issued by the National Board of Boil of NC and employed by	er and Pressure Vessel Inspectors and the State or Province HSB CT
of NC and employed by Hartford, CT have ins	spected the pump, or valve, described in this Data Report on of the Cartificate Holder has constructed this oump, 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, in this Data Report. Furthermore, neither the inspector nor his employer shall be liable or a loss of any kind arising from or connected with this inspection.	, expressed or implied, concerning the component described
Date 1-31-08 Signed   Commis   Commis	Sions NC15-19 [Not'l Bd. linel, endorsements) and state or prov. and no.]

#### FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS' AS Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

Manufa	clured by		I, Inc 160 Frenchtown F	Rd. No.Kingstown, RI 02852	
					20.4
Manuta	ctured for.		clear Power Plant, 10 Ce. name and address of Purchaser)	nter Road, North Perry, OH 44	.081
1	n of inchestion			Cooley Bood Madh Born, DU	44001
Location	n of installation	First Energy, Perty	(name and address)	Center Road, North Perry, DH	44081
Type:	r		DR\$ 211 RE\	/3	2006
, ype	C.S.S. (describe)		(Design Report or Load Capaci		(year buill)
ASME	Code, Section III, Division 1:	1974	Winter 1975	1	N-249-13
		(edition)	(addance date)	(dass)	(Code Case no
Identifica	ation		*		
	(a)	(b)	(c.)	(d)	(e)
	Component	Material	Canadian -	Applicable	Nalional
	Support	Specification	Registration	Drawings With	Board
	I.D. No.	No.	No.	Lasi Rev. & Date	· No.
/43	2006 126	Note 1	N/A	CH-1077/I 12/31/98	N/A
(1) _	2006- 126	NOIE I	N/A .	CD-10//// 123//30	N/A
(2)	2006- 127	Note 1	N/A	CH-1077/I 12/31/98	N/A
(2) —	2000-127	Mote 1	14//	O.1-101711 1231/30	100
(3)	2005- 128	Note 1	N/A	CH-1077/I 12/31/98	N/A
(3)	2000- 120	11012 1	14/	0)1-101111 (831130	
(4)	2006- 129	Note 1	ΝΆ	CH-1077/I 12/31/98	N/A
(4)	2000- 123	11016 1	111/1	C(F10/1/ 1231/30	11//
(5)	2006- 130	Note 1	N/A	CH-1077/I 12/31/98	 N/A
(5) —	2000- 100	110(6.1		CH-101711 12(51)30	
(6)	2006- 131	Note 1	N/A	CH-1077/I 12/31/98	N/A
(0)		11010			
(7)	2005- 132	Note 1	N/A	CH-1077/I 12/31/98	N/A
\''' —	2000- 102 .	11010		G17-10717 (251150	
(B)	2005-133	Note 1	N/A	: CH-1077/I 12/31/98	: N/A
(0)	2003-133	,		. 011-101711 1851150	
(9)	2006- 134	Note 1	N/A	CH-1077/I 12/31/98	N/A
(3)		11010 1	140	511 151111 1BB [150	10/3
(10)	2005- 135	Note 1	N/A	CH-1077/I 12/31/98	N/A
(10)	. 2000-100				
Remarks	•				
	Note 1: SA35, SA105 GR.	SA563 GR A SA193	GR B7 SA216 GR WCF	SA307 GR A	
	11012 1. 3733, 371103 3711	1,0,000 0,000	OTEDY, OTETO OTETO	3, 0,150, 010,1	
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		<del></del>		<del></del>	
	PO#: 45194933				
	SO#: 41-74740				

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

(12/88) This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300. Fairfield, NJ 07007-2300.

#### FORM NF-1 (Back - Pg. 2 of ______)

	Compon	ent Support I.D. Nos.	2005-126	through	2005-135
	CERTI	FICATE OF DESIGN			· · · · · · · · · · · · · · · · · · ·
Design Specification certified by	H. R. Sonderegger	P.E. State	_R.I.	Reg. no	3537
Design Report certified by	Frank J. Birch	P.E. State	R.I.	Reg. no	. 4149
	CERTIFIC	ATE OF COMPLIANC	E		
We certify that the statements ma	de in this report are corre	cl and that these co	mponeņt sup	ports conform	to the rules for
construction of the ASME Code, S	Section III, Division 1.		** .		
NPT Certificate of Authorization No.	N-280	2	Expires	9/29	0/2007
Date 7/24/06 Nar	ne Anvil International, Inc (NPT Certificate Holder)		m g	elu"	
	CERTIFIC	ATE OF INSPECTION	(		
I, the undersigned, holding a valid	commission issued by the	National Board of	Boller and Pr	essure Vessel	Inspectors and
the State or Province of	Rhode Island	and em	ployed by	H.S.	3, C.T.
of / Hartford.	C.T.	have inspected the co	omponent sup	ports described	in this Data Report
on 2/24/27	, and state t	hat to the best of my k	nowledge and	belief, the Certi	ficate Holder has
constructed these component support					
By-isigning this certificate, neither t	he inspector nor his empl	oyer makes any wan	anty, express	ed or implied,	concerning the
component supports described in the	nis Data Report, Furtherm	ore, neither the insp	ector 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 conne	cted with this in:	spection.
-//	0 111	· -		_	
Date 7/24/07 Signed	ut Hanon				
· / / /	(Authorized Inspection)	(Nat	I, Bd. (incl. endo	rsements) and sta	te or prov. and no.)

### FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS' As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

Manuta	clured by		al, Inc 160 Frenchtown F	Rd. No Kingstown, RI 02852	<del></del>			
Manuta	clured for	or First Energy, Perry Nuclear Power Plant, 10 Center Road, North Perry, OH 44081						
			name and address of Purchaser)					
Location	n of installation	First Energy, Perry	(name and address)	Center Road, North Perry, OH	44081			
Туре:	C.S.S.		DRS 211 REV	7.3	2006			
,,	C.S.S.	<del></del>	(Design Report or Load Capacit	y Data Sheet)	(Aost priji)			
ASME	Code, Section III, Division 1:	1974	Winter 1975	11	N-249-13			
		(nailion)	(addenda dale)	(class)	(Code Case rc.)			
denlific	ation							
	(a)	(b)	(c.)	(d)	(e)			
	Component	Material	Canadian	Applicable	National			
	Suppon I.D. No.	Specification No.	Registration No.	Drawings With Last Rev. & Date	Board No.			
	I.D. 146,	Nu	740,	EBS( NEV. D Date				
(1) _	2006- 136	Note 1	N/A	CH-1077/I 12/31/98	N/A			
(2)	2005- 137	Note 1	N/A	CH-1077/I 12/31/98	N/A			
(3)	2005- 138	Note 1	N/A	CH-1077/I 12/31/98	N/A			
- Annual		Note 1	N/A	CH-1077/l 12/31/98	N/A ·			
(4)	2006- 139	1VOLE 1	1974	CH-10//// 12/3/190				
(5)	2006- 140	Note 1	N/A ·	CH-1077// 12/31/98	N/A			
(6)	2006- 141	Note 1	N/A	CH-1077/I 12/31/98	N/A_			
(7)	2005- 142	Note 1	N/A	. CH-1077/J 12/31/98	N/A			
(8)								
⁽⁹⁾ _					<u>-</u>			
(10)		·						
temarks	: Note 1: SA35, SA105 GR.5	3 SA563 GR A SA10	3 GR B7 SA216 GR WICE	3 SA 307 CP A				
		., 5. 300 G.G., GA13.		-, 0. 00, 0.01				
		~ <u>~~</u>			<del></del>			
				· · · ·				
	PO#: 45194933							
	SO#: 41-74740							

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

(12/88) This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

## FORM NF-1 (Back - Pg. 2 of __2_)

Compon	ent Support t.D. Nos	2005-135	through	2006-142					
CERTI	EICATE DE DESIGN		<u>·</u>						
DEMINIONIE OF DESIGN									
H. R. Sonderegger	P.E. State	R.I.	Reg. no	3537					
Frank J. Birch	P.E. Stale	R.I.	Reg. no	4149					
CERTIFIC	ATE OF COMPLIANC	E							
in this report are corre	ed and that these co	omponent sup	ports conform	to the rules for					
N-280	2	Expires	9/29	2007					
	Signed/	em 9	olui						
(NPT Certificate Holder)									
CERTIFIC	ATE OF INSPECTION	1							
	. National December	n-b							
•									
<del></del>									
		,							
	•	-	201101, 1110 20111						
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the									
component supports 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.									
1 s//		- 01 2							
		062 1 8d floot and on	ABNI composite and state	e or now and no )					
	CERTIFIC  In this report are correction III, Division 1, N-280  Anvil International, Inc. (NPT Certificate Holder)  CERTIFIC  Termission Issued by the Rhode Island  T. , and state the accordance with the AS inspector nor his emploata Report. Furtherm perty damage or a loss	CERTIFICATE OF COMPLIANCE  in this report are correct and that these continuity, Division 1.  N-2802  Anvil International, Inc. (NPT Certificate Holder)  CERTIFICATE OF INSPECTION  minission Issued by the National Board of Rhode Island and employer, makes any warring accordance with the ASME Code, Section III,  inspector nor his employer, makes any warring Data Report. Furthermore, neither the inspectly damage or a loss of any kind arising.	CERTIFICATE OF DESIGN  H. R. Sonderegger P.E. State R.I.  Frank J. Birch P.E. State R.I.  CERTIFICATE OF COMPLIANCE  in this report are correct and that these component supplied in III, Division 1.  N-2802 Expires  Anvil International, Inc. Signed (NPT Certificate Holder)  CERTIFICATE OF INSPECTION  minission Issued by the National Board of Boller and Prenational state that to the best of my knowledge and accordance with the ASME Code, Section III, Division 1.  Inspector nor his employer, makes any warranty, express Data Report. Furthermore, neither the inspector nor his perty damage or a loss of any kind arising from or connect the inspector or connect the component supperty damage or a loss of any kind arising from or connect the inspector or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage or a loss of any kind arising from or connect the component supperty damage.	CERTIFICATE OF DESIGN  H. R. Sonderegger P.E. State R.I. Reg. no Frank J. Birch P.E. State R.I. Reg. no  CERTIFICATE OF COMPLIANCE  In this report are correct and that these component supports conform the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of					

1E12-311 60FG

# FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS' As Required by the Provisions of the ASME Code, Section III, Division 1 $\,$ Pg. 1 of $\,$ 2

1. Manulac	clured by		al, Inc 160 Frenchlown	Rd. No.Kingstown, RI 02852	
. Manufac	clured for			enter Road, North Peny, OH 4	:OR1
, ,,,,,,,,,,,,,			(name and address of Purchaser)		
. Location	of installation	First Energy, Perry	Nuclear Power Plant, 10	Center Road, North Perry, Or	44061
			•		
. Type: _	C.S.S.	<del></del>	DRS 210 RE	V.5	2006  year built)
	•			ny Data Bitably	
. ASME C	Code, Section III, Division 1:	1974 (edition)	Winter 1975 (addends date)	- 1 (Glass)	N-249-13 (Code Case no.
Line Million	atio o	(	(2202	(0.223)	(0.00 000 (0.
. Identifica		. 164	(-)		4-1
	(a) Component	(b) Material	(c.) Canadian	(d) Applicable	(e) Nalional
	Support	Specification	. Registration	Drawings With	Board
	I.D. No.	· No.	No.	Lasi Rev. & Dale	Nc:
(1)	2006- 143	Note 1	N/A	210-10000/C 11/16/04	N/A
(5)	2005 444	Nata #	100	240 4000000 44444	
(2)	2005- 144	Note 1	N/A	210-10000/C 11/16/04	N/A
(3)	2006- 145	Note 1	NIA	210-10000/C 11/16/04	N/A
	»				
(4)	2006- 146	Note 1	N/A	210-10000/C 11/16/04	N/A
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(5)					
(6)					•
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(9)	<u> </u>	·	·		_ <u></u>
(1D)					
Remarks:					
	Note 1: SA36, SA106 GR.B	, SAS53 GR,A		· · · · · · · · · · · · · · · · · · ·	
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		<del></del>	<del></del>		
			<del></del>		
	PO#: 45194933		<del></del>		
	SO#: 41-74740		<del></del>	<del></del>	
	<del></del>			·	

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

(12/88) This

This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2303.

#### FORM NF-1 (Back - Pg. 2 of 2 )

	Compon	ent Support I.D. Nos.	2006-143	through	2005-146
	CERTI	FICATE OF DESIGN	·		
Design Specification certified by	H. R. Sonderegger	P.E. State	R.i.	Reg. no	3537
Design Report certified by	Frank J. Birch	P.E. State	R.I.	Regi no	4149
	CERTIFIC	ATE OF COMPLIANC	E		
We certify that the statements ma construction of the ASME Code, SNPT Certificate of Authorization No.  Date 7/24/06 Nar	•	2	Expires	•	to the rules for
	CERTIFIC	ATE OF INSPECTION			•
1, the undersigned, holding a valid the State or Province of	commission Issued by the		Boiler and Prologed by		Inspectors and
of Hartford,	C.T.	have inspected the co	mponent sup	oorts described	in this Data Report
on 7/24/06 constructed these component support		hat to the best of my k MÉ Code, Section III,	-	belief, the Certi	ficate Holder has
By signing this certificate, neither t	·	•			
component supports describéd in the manner for any personal/injury or t					-
Date 2/24/07 Signed		Commissions AZ	862	4BNI	or oroy and no.)

							[[] 1E21-040 - 非		
T.	NIS-2	/NR-1 OWNE						ENTS	
P	NPP No. 9308 F		quired by the Prov	isions of tr	ne ASME Co	ode Section	on XI 	NQI-1741	
1	. Owner:	FIRST	TENERGY CORP.		<del></del>		Date <u>3-21-08</u>	,	
	10 Center Road, Perry, Ohio 44081					Sheet 1 of	2/17	204	
2	!. Plant:		ear Power Plant (F Road, Perry, Ohio 4				Unit one ORDER 2002989	110	
		. 10 Center A	toau, Ferry, Onio -			٠	(Repair Org. P.O. N		
3	Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP  Type Code Symbol Stamp NR  Type Code Symbol Stamp NR								
		• • • • • • • • • • • • • • • • • • • •	enter Road, Perry,			•	Authorization No.	• -	
							Expiration Date (	9-28-2008	
4	. Identificatio	n of System: 1E21	Low Pressure Co	ore Spray	···			official There	
5.	(a) Applicat	ole Construction Co					,19 <u>74</u> Editio	n.	
	\\/\INTE	R 19:75	NAME/SECT	Property Commence	the contribution	NL 272 N	413 N-247 1644-5	1728	
	VIIVI L		Addenda Code				#10,14247,1044 C	。 数据性学系	
	(b) Constri	iction Code used fo	or repairs, modifica	ations, or re	eplacement			see abov	
1000	(c) ASME	Code Section XI ap	policable for Inserv	ice Inspec	ion		ion Addenda		s)
						Edit	ion Addenda		5)
		ble Edition of Section			odification, o	or Replace	ements:		
		Responsibilities Fi	Code	e Case(s)	Company	PNPP			
6.	Identification	n of Components R	epaired, Modified,	*4411	ement Con	ponents	ili ya uzagane integri ya segsen		**** 
4 % %	Name of Component	Name of Manufacturer	Manufacturer Serial No	Nat. Board No.	Other ID.	Year Built	Replacement, or Modification	ASME Code Stamped	
3 2	打斗排費,				表法。接致		1,200		1999
43.76.45	Piping System	Pullman Power	1E21	85	N/A	1985	RPL	Yes	1986; CH
(1) これでは、大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大					76.133	經議			A STATE OF
71.5			<b>学是是一个工程</b>					規制路	right.
i i									See .
	Description	of Work: Permane	ntly removed supp	ort 1E21H	0022 and re	eworked s	upport No 1E21H	0024 by	
re	moving snub	ber S/N 14288 per	ECP 04-0270-01						識
0.00	Pressure: N	cted de Hydrostatic	Pneumat Pneumat Temperature_de	<b>建建设的</b>	Nominal Ope	元			
					學能可能		和非認為特別	<b>弹的</b> 流数	di.

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00
9. Remarks:_
N/A
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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
Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Consult   Cons
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION  J homas Labs  J holding a vaid commission issued by the National Board of Boiler and Competency issued by the Jurisdiction of CoHO  Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of CoHO  That employed by HSB C14  That are also as the property of Hartford Competency issued by the jurisdiction of CoHO  That employed by HSB C14  That are also as the property of Hartford Competency issued by the jurisdiction of CoHO  That employed by HSB C14  That are also as the property of Hartford Competency issued by the jurisdiction of CoHO  That employed by HSB C14  That are also as the property of Hartford Competency issued by the jurisdiction of CoHO  That employed by HSB C14  That are also as the property of Hartford Competency issued by the jurisdiction of CoHO  Section XI of the ASME Code and the National Board Inspection Code 'NR' rules.  By suming this certificate mether the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in the concerning the work described in this report. Furthermore are the concerning the work described in the concerning the work described in the concerning the work described in th

1E21-041

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI									
PNPP No. 9308			ISIONS OF U	IE ASIVIE CO			NQI-1741		
1. Öwner: _	FIRST	ENERGY CORP.		· · · · · · · · · · · · · · · · · · ·		Date <u>6-18</u>	-9		
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2		
2. Plant: _	. Perry Nucl	ear Power Plant (F	NPP)			Unit 1			
_	10 Center F	Road, Perry, Ohio 4	14081			200218275 (Repair Org. P.O. N	lo., etc.)		
	( again and a said								
3. Work Perfe	ormed By: FIRSTE					Type Code Symb			
	10 Ce	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No.			
					•	Expiration Date (	09/28/2011		
4. Identification	on of System: RES	SIDUAL HEAT REN	MOVAL 1E	12					
5. (a) Applica	ble Construction Co	ode: ASME Section	ı III Class	2		19 <u>74</u> Editio	on .		
\A/INIT	ER 19 75 /	NAME/SECT			4 NI 272	, N-413, 1644-5, 17	720		
AAIIAA	EK 19 <u>75</u> 7	Robenda Code		V-242, IV-22	4, 1 <u>V-212</u>	, 14 <del>-4</del> 13, 1044-3, 17	20		
(b) Constr	uction Code used fo	or repairs, modifica	itions, or r	eplacement	s: 1974	W 75	*		
		,				ition Addenda	Code Case(s)		
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1989 Edi	none ition Addenda	none Code Case(s)		
(d) Applica	able Edition of Secti	on XI Utilized for R	tepairs, M	odification, o	or Replac	ements:			
19 <u>89</u>	19 <u>none</u>								
(e) Design	Responsibilities FI		e Case(s) RP•						
6. Identification	n of Components F	Repaired, Modified,	or Replac	cement Con	nponents				
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME		
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped		
PIPING SYSTEM	PULLMAN POWER	1E21	N/A	1E21F018	1985	Replacement	YES		
<del> </del>						-			
•	<del> </del>								
			[	<u> </u>		·			
7. Description	of Work: REPLAC	ED VALVE S/N 1 \	MITH VAL	VE S/N 2.					
		.*							
8. Test Condu	•				_		er- 🗌		
Pressure 4	Pressure 424 psi Test Temperature 77 degrees F Code Case(s) N/A								

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NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
O. Bernadus
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.
TO BELLO IN CITY CONTROL TO THORIT TO STOCK THE THREE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF T
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 or
the front of this form.
CERTIFICATE OF COMPLIANCE
I, Michael J Tepsick, 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 11
Date 18 III NE 20 09 Signed EENICE PRIPE
Date 18 JUNE, 20 09 Signed FENOC-PNPP Moderate (title)    Continue of repair organization   QC Tech. (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G, Lapsholding 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 CT. of Hartford, Conn. have
inspected the repair; modification or replacement described in this report on June 24, 20 pg 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 6/24, 20 09 Signed Therman Johnson Commissions NB 9330 "N" "I" "A" Ohio Comm.
(inspector) (National Board (include endorsements)
and jurisdiction, and no.)

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FORM NY-1 N		A REPORT FOR SAFETY AND SAFETY RELIEF VALVEST	2 OF 2
	Tourse Tout Company	on 1966 E. Broadnollow Rd E. Firmingdale, N	三 .Y. 11735
1. Manufactured	for Cleveland Electric I	s of M Constitute Moleon) Claveland Ohio	_
3. Location of Ins	iName and Add	icas of Purchaser or Owner) Plant, Party, Ohio and Address	— — — — — — — — — — — — — — — — — — —
4	1 1/2 x 2 REF-C-7		
5. Vslva	76H-007A  [Model No., Sense No.] Relief Valve	Identifying Nos. 2  IN Certificate Holder's Serial Re.)	
Type	Softery, Sellery Relieft, Filest, Power Adjust 1.00 Nominal Inle	1 1/2	- d
6. Set Pressure	FSIG)	Rated Temperature 500	
Stampad Capa	Set Steam 425	@% Overpressure Blowdown (PSIG) 588/508	
Hydrostatic Tes 7. Premure Retain	of (FSiG) Inter	Outlet 425 (Applicable to velves for closed systems only)	
	Serial No. or Identification		in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
Body	300425-1	ASPE SA-105	_
Bannet or Yoke Support Rods		ASME SA-105	
Nozzle O:sc	300831-F 202 <u>9</u> 25-1	ASME SA 479-316L ASME SA 564 G.R. 630. SS 17-43	
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	•	D. W. GROV	V 1
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(10/77)	This form (500042) may be o	blaines from the Order Dept., ASME, 345 E, 47th St., New York, N.Y. 1001	
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FORM NV-1 (Sack)
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 ASIME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda Sum. 197  Code Case No
Oste 11-3-33 Signed Target Rock Corporation by M. Musical Control Out ASME Cartificate of Authorization No. 1949 Fig. 6. Abruzzo, Mogr. of Quality MV to use the MV (NV) Symbol expires 12/9/83
CERTIFICATION OF DESIGN
Design information on file at
Design specifications certified by:
₹ State _ P4 Reg. No 20130£
Gress report certified by
State Reg. No
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 Inspector and the State or Province of New York and employed by Commercial Union Ins. Composition of Mass. have inspected the pump, or valve, described in this Data Report of 19 82 and state that to the best of my knowledge and belief, the N Certificate Holder has pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.
systeming 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 an manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the sec
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D. W. GROW \$7 JAN 4 1983

#### 1E21-042

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI							
PNPP No. 9308 F		quired by the Provi	isions of th	e ASME C	ode Section	on XI	NQI-1741
1. Owner:	FIRST	ENERGY CORP				Date 6/23-09	
1. Owner		Road, Perry Ohio	44081			Sheet 1 of	2
				<del></del>			
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)	<del></del>		Unit <u>one</u>	
	10 Center F	Road, Perry, Ohio 4	14081			ORDER 200257	
			•			(Repair Org. P.O. N	lo., etc.)
3. Work Perfo	rmed By: <u>FIRSTE</u>	VERGY Nuclear Ope	eratino Con	npany PNPP	•	Type Code Symi	ool Stamp <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u> </u>		Authorization No	33
	•		•			Expiration Date	09-28-2011
4. Identification	n of System: 1E21	Low Pressure Co	ге Ѕргау				
5 (a) Applicab	de Construction Co	ode: <u>ASME SECTI</u>	ON III Cla	ss 2		19 <u>74</u> Editi	On
o. (a) / (pp//ode	001,01, 404,017 00	NAME/SECT					O11
. WINTE	R 19 <u>75</u> /	Addenda Code	Case(s), <u>N</u>	-242,N-224	1,N-272,N	413,1644-5,1728	<del></del> ·
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(b) Constru	ction Code used fo	or repairs, modifica	itions, or r	eplacemeni		winter 75 tion Addenda	see abov Code Case(s)
(c) ASME (	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1889	<u>no</u>	n/a
(d) Applical	ole Edition of Coeti	no VI Hilliand for D	Annies Ma	adification		tion Addenda	Code Case(s)
		on XI Utilized for R Addenda <u>n/a</u>	•	Junication,	or Replac	errents.	
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(e) Design	Responsibilities <u>Fi</u>	rst Energy Nuclea	r Operatin	g Company	PNPP	•	
6. Identification	n of Components F	Repaired, Modified,	or Replac	ement Cor	nponents		
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
						<b> </b>	
Piping	Pullman Power	1E21	-85	1E21	1985	RPL	Yes
System			ļ				
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Pressure 46	S psi Te	st Temperature 7	7 0	degrees F	Code	Case(s) N/A	<del></del> .

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741	
9. Remarks:	
N/A	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370	
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 or the front of this form.	1
CERTIFICATE OF COMPLIANCE	
I, John W. Messenger, 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 3-28 20 08	
Date 6/23 , 20 09 Signed FENCC-PNPP Muslum QE (name of repair organization) (title)	
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas 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 CT of Hartford Conn. have	
inspected the repair, modification or replacement described in this report on Jule 24. 2009 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 624, 2009 Signed Thamas Board Commissions NB 9330 "N" "I" "A" OHIO COMM. (inspector) (National Board (include endorsements), and jurisdiction, and no.)	

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### 1E21-043

NIS-2/NR-1						REPLACEME	ENTS	
PNPP No. 9308 Rev. 9/11/00		uired by the Provi	SIONS OF TH	e ASME Co	ode Section	on XI	NQI-1741	
1. Owner:	FIRST	ENERGY CORP.				Date 7-1-9		
10 Center Road. Perry, Ohio 44081 Sheet 1 of 6								
10	Center Ro	ear Power Plant (Poad, Perry, Ohio 4	4081			Unit one ORDER 2001991 (Repair Org. P.O. N	o., etc.)	
Work Performed By:		nter Road, Perry,				Type Code Symb Authorization No.		
	1000	iter read, i erry,		<u>·</u>	٠.	Expiration Date 0		
4. Identification of Syste	m: 1F21	Low Pressure Co	re Sprav			· -		
5. (a) Applicable Constr	uction Cod	de: ASME SECTION NAME/SECTION	ON III Clas	N/CLASS		19 <u>74</u> Editio		
(b) Construction Code used for repairs, modifications, or replacements: 1974 winter 75 Edition Addenda Code Case(s)  (c ) ASME Code Section XI applicable for Inservice Inspection: 1989 no n/a Code Case(s)  (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:  19 89 , n/a 19 n/a Addenda n/a *Code Case(s)  (e) Design Responsibilities First Energy Nuclear Operating Company PNPP								
6. Identification of Comp	onents Re	epaired, Modified,	or Replac	ement Con	ponents			
Name of Nan Component Manuf	ne of acturer	Manufacturer Serial No.	Nat. Board No.	Other ID:	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
Piping Pullman System	Power	1E21 ·	85	1E21	1985	Replacement	Yes	
							,	
			,					
7. Description of Work: See remarks section  8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure x Other- Pressure 321 psi Test Temperature 76 degrees F Code Case(s) N-416-3								

Ρ	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
A 1 2 1	Remarks: Modifications made for the ADHR system per requirements of ECP 04-0270 -01 using the following ASME parts: (12')-10 "dia. Sch. 40 SA106 pipe Ht.# A20028, (2)-50 # 10" gate valves S/N BE467, BA780, (2)-300# 10" Sch. 40 gate valves S/N BE465, BA773, (1)- pipe weldolet 4"x10" Ht.# 4036ANF,(2) 24" dia. 150 psi Flanges Ht.# 207K740, and (1) Sway Strut SZ-2 S/N 2006-116 & 117, " plate Ht# U8493/2E, tee Ht# S609, 24" pipe Ht# B67599, 40 studs 1"-8 Ht# 2J200 and 80 nuts 1"-8 Ht#10280, sing weld rod HT.# CP7808, 065735,789X,065767,42379,065905,159443.
N	IO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
<u>B</u>	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	lote: 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, Michael J Tepsick, 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 9-28 , 20 11_
•	Date 1 July 20 09 Signed FENOC-PNPP P Description QE (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION .
	I _i Thomas Lapsholding 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 <u>HSB CT</u> of <u>Hartford Conn.</u> have
•	inspected the repair, modification or replacement described in this report on 1 July 20 09 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 1 July 20 09 Signed Thombs J 7224 Commissions NB 9330 "N" "I" "A" OHIO COMM. (Inspector) (National Board (include endorsements),

1E21-0432 OF6

### FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 1. Manufactured and certified by Howserve Corporation, 1900 South Saunders St. Raleigh, NC 27603 2 Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100 3. Location of installation Perry Nudear Power Plant 10 Center Road Perry, OH 44081 300 06-40687-02 4. Model No., Series No., or Type _ 1974 Winter 1975 5. ASIME Code, Section III, Division 1: __ 6. Pump or valve Valve 10 _ Nominal inlet size Outlet size 7. Material: Body SAZ16-WCB Bonnet SAZ16-WCB Disk SAZ16-WCB Bolting SA193-B7 eviav (a) (b) pump Casing Cover Bolting (a) Cort Holdor's Sorial No. (b) Nat'l Board No. (c) Body/Casing Serial No. (d) BE465 N/A BYGR-1 BYCC-2 BXXW-5

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

# FORM NPV-1 (Back — Pg. 2 of _____)

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	Cartificate Holder's Serial No.	BE465
8. Design conditions 500 psi 212 F or valve pressur	re class 300	<u> </u>
9. Cold vrorting pressure 720 psi at 100°F		
10. Hydrostatic test 1125 psi. Disk differential test pressure 750		psi
11. Remarks: Sales Order 40687 Item 004 Bolting is as follows: Studs, SA 193-B7. Ht Trace Code Z876 Nuts, SA194-2H, Heat Trace Code Z83)		
		·
CERTIFICATION OF DESIGN		
Design Specification certified by W. Flensburg	P.E. State OH Reg. no.	49729
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 ve	alve conforms to the rules for constru	ection of the
ASME Code, Section III, Division 1.		
N Certificate of Authorization No. N-1562 Expire	* <del>- 11 25 35</del>	
Date 1/21/08 Name Howserve Corporation Signed	W. D. Kel	
IN Cardicate Holder)	(suthorized teptesentative)	
		<del></del>
CERTIFICATE OF INSPECTION		
I, the undersigned, holding a valid commission issued by the National Board of Boiler and P of NC and employed by	ressure Vessel Inspectors and the State	or Province
1 )	he pump, or valve, described in this Da	
	ertificate Holder has constructed this pur	np, or valve,
By signing this certificate neither the inspector nor his employer makes any warranty, express	ed or implied, concerning the compone	int described
In this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any	•	1
or a loss of any kind arising from or connected with this inspection.		ļ
Date 1-31-08 Signed Withorited Nuder Inspector	NC1549 [Nat'l Bid (Incl. endorsements) and state or pro-	v rod oo l
Approvises repress limbarroll	president of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of the composition of	

1E21-043 3 OF 6

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 1. Manufactured and certified by Flowsen's Corporation, 1900 South Saunders St. Raleigh, NC 27603 2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100 3. Location of installation Perry Nudear Power Plant 10 Center Road Perry, OH 44081 300 05-40687-02 D N/A 4. Model No., Series No., or Type 1974 2 Winter 1975 N/A 5. ASME Code, Section III, Division 1: [adition] 6. Pump or valve Valve _ Nominal inlet size _ . Outlet size . 7. Material: Bonnat SA216-WCB Disk Body SAZ16-WCB Bolting SA193-B7 (a) valve (b) pump Casing Cover Bolting (a) Cort. Holders Serial No. (b) Nat'l Board No. (c) Body/Caring Serial No. Serial No. BA773 N/A BWGK-1 BWFK-1 BWSK-1

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

# FORM NPV-1 (Back — Pg. 2 of 2 )

Certificate Holder's Serial No.	
8. Design conditions 200 psi 358 °F or valve pressure class 300	_
9. Cold working pressure 720 psi at 100°F	
,	isc
11. Remarks: Seles Order 40687 Item 002  Bolting is as follows: Studs, SA 193-87, Ht Trace Code 2876  Nuts, SA194-2H, Heat Trace Code 2831	 
	_ _
CERTIFICATION OF DESIGN	٦
Design Specification certified by W. Flensburg P.E. State OH Reg. no.  Design Report certified by P.E. State Reg. no.	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.  N-1562  Expires  11-26-09	_
N Certificate of Authorization No. N-1S62 Expires 11-26-09  Date 4/28/07 Name Flowserve Corporation Signed vic Sad	-
	_
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 NC and employed by HSB CT HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report of	-
of Hartford, CT have inspected the pump, or valve, described in this Data Report or 4/27/37 , and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve in accordance with the ASME Code, Section III, Division 1.	.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this Inspection	
Date 4/28/07 Signed (Authorited Nuclear Inspector) Commissions NC7/42/ [Nart. Bd. (Incl., endorsements) and state or prov. and no.]	-

1E21-043 4 OF6

FORM NPV-	1 CERTIFICATE HOL	DERS' DATA REPORT FO	R NUCLEAR PUMPS	OR VALVES*
Aş	Required by the Pro	ovisions of the ASME Co	de, Section III, Divisi	on 1 Pg. 1 of
Manufactured and certified	by Rowserve Corporat	ion, 1900 South Saunders St. R	Calciph, NC 27603	
2. Manufactured for First I	Energy Corporation PO B	ox 6100 Johnstown, PA 15907-	6100 of Purchasar)	
3. Location of installation	Perry Nudear Power Pl	ant 10 Center Road Perry, C	DH 44081 d address)	
4. Model No., Series No., or	• •	•		CRNN/A .
5. ASME Code, Section III, Di	•		· 2	N/A (Code Case no.)
6. Pump or valve Valve	Nominal inlet s	ize 10 Outlet s	size 10	
7. Marerial: (a) valve Body SA216	S-WCB Bonnet SAZ16-V		Solting SA193-87	
(b) pump Casing (a) Cert. Holders	(b) Nat'i Board	Bolting	(d) Bonnet/Cover Sarial No.	(a) Disk Serial
Serlal No. BE457	No. N/A	BYFS-1	BYGP-1	No.  BXZW-1
			21011	
			• •	
			·	·

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

# FORM NPV-1 (Back — Pg. 2 of 2 )

			С	ertificate Holder's Seri	al No	BE467
B. Design conditions	100 psi	212 (temperature)	F or valve pressure cla	ss <u>150</u>		
9. Cold working pressur	275 psi a	t 100°F				
10. Hydrostatic test	425 psi. Disk diffe	erential test pressu	re <u>300</u>			ps
11. Remarks: Sales Orde					•	
	: Studs, SA 193-B7, Ht Trace est Trace Code Z834 (OTY, 11					
		<del></del>				
	W: Henshum	CERTIFICATION		. ОН	_	49729
Design Specification cert Design Report certified b	ified by W. Flensburg			P.E. State	Regina Regina	
ASME Code, Section III, N Certificate of Authoriz	8.7 4	1562	at this pump or valve o	conforms to the rules	•	action of the
		CERTIFICATE OF	- INSPECTION			
I, the undersigned, holdi	ng a valid commission issued	by the National Bo	pard of Boiler and Pressu HSB CT	ra Vessel Inspectors a	nd the State	or Province
	of Hartford, CT , and state that to the bo		have inspected the pu ge and belief, the Certific			
By signing this certificate	SME Code, Section III, Division neither the inspector nor his e	mployer makes ar	y warranty, expressed of	r implied, concerning t	he compone	ent described
	ermore, neither the inspector r ing from or connected with thi		nau de Rabie in any mani	ner for any personal in	intry of blob	≈пу сатара
Date 2-5-08	Signed Wayhorksed Nur	clear Inagication	_ Commissions/	WC1549 stt. 8d. (Incl. endorsements)	and state of pro	v. end no.)

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1821-043 5016

FORM NP	V-1 CERTIFICATE HOLD	ERS' DATA REPORT F	OR NUCLEAR PUMPS	OR VALVES*
	as Required by the Pro	visions of the ASME C	ode, Section III, Divisio	Pg. 1 of
Manufactured and certification	fied by <u>Flowserve Corporation</u>	n, 1900 South Saunders St	Raleigh, NC 27603	
2. Manufactured for Fig.	st Energy Corporation PO Box	k 6100 Johnstown, PA 15907	-6100	
3. Location of installation	Perry Nudear Power Pla	int 10 Center Road Perry,	OH 44081	
4. Model No., Series No.,	or Type 150	Instruction of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the	nd address)	CRN N/A
5. ASME Code, Section III,		•		N/A
	(20.02)	Winter 1975 (addenda date)		(Code Case no.)
6. Pump or valve	Nominal inlet siz	e 10" Outlet	size	
7. Material:  (a) valve Boo\$A216  (b) pump Casing		CB Disk SAZ16-WCB Bolting	Bolting SA193_B7	
ia) Cert. Holder's Serial No.	lb) Nat'l Board No.	(c) Body/Casing Sarial No.	ld) Bonnet/Cover Scrial No.	te) Disk Serial No.
				-
BA780	N/A .	BXM8-1	BWWB-1	BWKC-1
		,		
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* Supplemental information in the form of lists, electhes, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each cheet, (3) each sheet is numbered and the number of cheets is recorded at the top of this form.

# FORM NPV-1 (Back — Pg. 2 of 2 )

					,	Certificate Holder's Serial No	BA780
	•	100		212			
8. De:	sign conditions	(pressure)	. psi	CIZ	. F or valve pressure cl	lass <u>150</u>	
9. Col	ld working pressure _	275	psi at 1	DO*F			
10. Hyd	drostatic test425	5 psi.	Disk differen	itial test pressu	300 ire	·	psi
11 Re-	marks: S.O. 40687	ITEM 8					
			DS, SA193-	B7, Ht# Z84:	3; NUTS, SA194-2H.	Ht# 7834	
						·	
			<del></del>		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
				CERTIFICATION	N OF DESIGN		{
Desig	n Specification certifie	d byW. FL	ENSBURG			P.E. State OH Re	g, no. 49729
Desig	n Report certified by	N/A				P.E. State N/A Re	g. noN/A
	<del></del>						
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			C	ERTIFICATE OF	COMPLIANCE		
We ce	ertify that the statem	ents made in th	is report are	correct and th	at this gump or valve	conforms to the rules for	construction of the
	Code, Section III, Di		·			44.25.22	
N Сег	tificate of Authorization	on No	N-156	2 .	Expires _	11-26-09	
	4/28/07	. Flowser	ve Comporatio	n	a	die Sed	
Date	4/28/07	lame	. IN Certific	cate Holder)	Signed	(authorized represen	lotive)
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			С	ERTIFICATE O	F INSPECTION		ĺ
l, the I	NIC .	a valid commiss	ion issued by	the National B	oard of Boiler and Press HSB CT	sure Vessel Inspectors and th	e State or Provinçe
	of	Hartford, CT			have inspected the p	oump, or valve, described in	this Data Report on
4	127/07	, and state th	at to the best	of my knowled	ge and belief, the Certifi	cate Holder has constructed t	this pump, or valve,
	ordance with the ASM		-				
						or implied, concerning the co	
	use of any kind arising				onen de liable iu auk wa	nner for any personal injury o	n property damage
,	1/2/		1 / 1	,		di come	ĺ
Date	_ <i>4/28/07</i> _s	igned	Authorized Nuclear	Inspector)	_ Commissions NC	Nerl, Bd. final, endorsemental and ste	te of prov. and no.)

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# FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS' As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

. Manufa	ctured by			Rd. No.Kingstown, RJ 02852	
			e and address of NPT Certificate H	•	
Manufa	ctured for	First Energy, Perry N	uclear Power Plant, 10 Ce	nter Road, North Perry, OH 44	1081
			(name and address of Purchaser)	•	
Locatio	n of installation	First Energy, Pern	y Nuclear Power Plant, 10 (name and address)	Cenler Road, North Perry, OF	44081
_			·		
Type: _	C.S.S.		DRS 211 REV (Design Report or Load Capacit		2006
			Design Report or Load Capaci	ly Dala Sheel)	(year bulli)
ASME	Code, Section III, Division 1:	1974	Winter 1975	1.	N-249-13
		(edition)	(addenda dale)	(ctass)	(Code Case no.
Identific	ation		1		
	(a) Component	(b)	(c.) Canadian	(d)	(e)
	Support	Specification	Registration	Applicable Drawings With	Nalional Board
	1.D. No.	No.	No.	Lasi Rev. & Date	No.
(1) _	2006- 115	Note 1	N/A	CH-1077/I 12/31/98	NIA
	2006- 117	Note 1	N/A	CH-1077/I 12/31/98	1.1/A
(2) _	2000- 111	Note 1	1975	CU-1011111231138	N/A
(3)	2006- 118	Note 1	N/A	CH-1077/I 12/31/98	N/A
(4)					
(4)	2006- 119	Note 1	N/A	CH-1077/I 12/31/98	N/A
				D11 45778 45504 155	
(5)	2006- 120	Note 1	N/A	CH-1077/I 12/31/98	N/A
(6)	2005- 121	Note 1	N/A	CH-1077/I 12/31/98	N/A
· · ·	•				
(7)	· 2005- 122	Note 1	N/A	CH-1077/I 12/31/98	. N/A
(0)	2005- 123	Note 1	N/A	CH-1077/1 12/31/98	N/A
(8) _	2000- 123	1,4010 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(9)	2008- 124	Note 1	• N/A	CH-1077/I 12/31/98	N/A
(1D)	2006- 125	Note 1	N/A	CH-1077/I 12/31/98	A\N
(,					
Remarks		·		<del></del>	
	Note 1: SA36, SA105 GR.E	i, SA563 GR.A, SA19	3 GR.B7, SA216 GR.WCE	3, SA307 GR.A	
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	PO#: 45194933		<del></del>		

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

(12/88) This form (E00075) may be obtained from the Order DepL, ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

# FORM NF-1 (Back - Pg. 2 of _______)

Design Specification certified by H. R. S Design Report certified by Frank J	onderegger . Birch	TE OF DESIGN P.E. State P.E. State	R.I. R.I.	Reg. no Reg. no	3537 4149
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	. Birch	-			
Design Report certified by Frank J		P.E. State	R.I.	Reg. no	4149
'	CERTIFICATE	OF COMPLIAN	CE		
We certify that the statements made in this r	eport are correct a	and that these	component sup	ports conform !	to the rules for
construction of the ASME Code, Section III, I	livision 1.				
NPT Certificate of Authorization No.	N-2802		Expires	9/29/	/2007
	nternational, Inc.	Signed	em Go	lui'	
		<del></del>			
	CERTIFICATE	OF INSPECTION	DN .		
	OZMII JOMIC	. 01 1101 2011	<b>314</b>		
, the undersigned, holding a valid commission	issued by the Na	ational Board o	Boller and Pr	essure Vessel	Inspectors and
	ode Island		mployed by		
of Hartford, C.T.	hav	e inspected the	component sup		in this Date Report
no	, and state that t				
constructed these component supports in accorda					

1E22 - 074

NIS-2	NR-1 OWNE	R'S REPOR					ENTS		
PNPP No. 9308		quired by the triov					NQI-1741		
1. Owner: _	FIRS	TENERGY CORP.				Date6-5-	9		
_	10 Center F	Road, Perry Ohio	44081			Sheet 1 of	2		
2. Plant:		ear Power Plant (F				Unit 1			
_	. 10 Center F	Road, Perry, Ohio 4	14081			200279002 (Repair Org. P.O. N	lo etc)		
						(110pan 07g. 170. 1	, 0.0.,		
<ol><li>Work Perfe</li></ol>	ormed By: FIRSTE	NERGY Nuclear Ope	erating Cor	прапу РМРЕ	<u>.</u>	Type Code Syml	ool Stamp <u>NR</u>		
10 Center Road, Perry, Ohio 44081 Authorization No. 33									
	Expiration Date <u>09/28/2011</u>								
4. Identification	on of System: <u>HIG</u>	H PRESSURE CO	RE SPRA	Y 1E22					
5. (a) Applica	ble Construction Co	ode: ASME Section	n III Class	s 2		1974 Editi	on		
		NAME/SECT	ION/DIVISIO	ON/CLASS					
WINT	ER 19 75	Addenda Code	Case(s) <u>N</u>	I-224-1, N2	42. N272,	N275.			
	•				<del></del>		<del></del>		
(b) Constr	uction Code used for	or repairs, modifica	ations, or r	eplacemen		W 75 Addenda	none Code Case(s)		
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1989	none	none		
	•				Ed	ition Addenda	Code Case(s)		
	able Edition of Secti		-	odification,	or Replac	ements:			
	19 <u>none</u>	Code	e Case(s)						
	Responsibilities F								
6. Identification	on of Components F	Repaired, Modified,	or Repla	cement Co	mponents				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped		
PIPING SYSTEM	PULLMAN POWER	1E22	86	1E22 F0035	1985	Replacement	YES		
<del> </del>									
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		·			<del> </del>				
	<u></u>				<u> </u>				
7. Description	of Work: REPLAC	ED VALVE S/N 5 \	WITH VAL	VE S/N 3.	<b></b>				
0 Tant O = 1	atada Ibataat C			Namis -1 O					
	icted: Hydrostatic	_	_		_	<del></del>	er- 📙		
Pressure 5	943 psi Te	st Temperature <u>N</u>	. <u></u> (	degrees F	CODE	Case(s) N/A			

F	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
9	. Remarks:
_	
1	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.
Ν	ote: 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, Michael J Tepsick, 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 11
	Date 5 JUNE , 20 09 Signed FENOC-PNPP MA 2 July QC Tech.  (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. Laos , 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
į	and employed by HSB CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on JUNE 5, 20 09 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,
i	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 June , 20 09 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

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2 Manufactured for C1	eveland Electric			., Gleve	elland,	2500
L Location of Installation		d(@fr7#18	Transit in	y, Chio		
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Hydrostatic Test (PSIG):		<del> </del>	Out at sand	250 W.Y.	oracla sea avet	ems onby
7. Pressure Retaining Pieco	es Sensing or	i		-Matenays		<b>是那种。</b>
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* Supplemental sheets in form of lists, sketches or drawings may be used provided (4) size is 44/62 × 137/42/1/10/10/10/10/10/10/10/10 in items 1-2 on this data report is included on each sheet, and 43% each sheet is numbered and number of sheets is recorded at top of this form.

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This form (EDC042) may be obtained from the Order Deb 🐰 (議任, 345 E, 47 St., New York, 市区, 70017

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of the ASME Code for Nuclear Power Plant Comp	onents:(Section III, Ojy, 1	1974 - Sainon, Addi	nda Silai 45/0
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symbol expires 12/9/87		, , , , , , , , , , , , , , , , , , ,	(AAA)
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the equipment described in this Data Repoin To			
manner for any personal injury or property data	क्ष्मका व lo <u>क्स्</u> राह्म का व विद्व		116 PA 1 PROPERTY 1997
Date	1000	O COMPUSSIONEE HIT YN	Object to
Signed Minspedion	Commissions:	milion / State (Charles Visite State)	
mapation,			



### 1E51-147

NIS-	2/NR-1 OWNE		•	-			ENTS
PNPP No. 930		quired by the Prov	isions of tr	e ASME Co			NQI-1741
1. Owner:	FIRS	TENERGY CORP.		·		Date 06/12/09	
	10 Center I	Road, Perry, Ohio	44081			Sheet 1 of	2
•						•	
2. Plant:		lear Power Plant (F				Unit one	
10 Center Road, Perry, Ohio 44081 ORDER 200275849 R/0 (Repair Org. P.O. No., etc.)							
3 Work Per	formed By: FIRSTE	NERGY Nuclear Op	erating Com	nany PNPP		Type Code Symb	ol Stamn NR
		enter Road, Perry,				Authorization No.	
•	-					Expiration Date (	9-26-2011
4. Identificat	ion of System: <u>1E5</u>	1 RX ISOLATION	COOLING	SYSTEM			
5. (a) Applic	able Construction Co	ode: ASME SECTI	ON III CLA	ASS NB CO	ASS1	19 <u>74</u> Editio	n
		NAME/SECT	ION/DIVISIO	N/CLASS	TGU 7	1409	
	ER 19 75 ruction Code used for					winter 75	NA NA
(b) Cons	duction code used in	or repairs, mounice	ilions, or it	shiaceilleilt		tion Addenda	Code Case(s)
(c ) ASME	Code Section XI ar	oplicable for Inserv	ice Inspec	tion: .		NA tion Addenda	NA Code Case(s)
(d) Applic	cable Edition of Sect	ion XI Utilized for R	Repairs, Mo	odification, o	or Replac	ements:	,
19 <u>89</u>	<u>, n/a</u> 19 <u>n/a</u>		e Case(s)				
· (e) Desig	n Responsibilities <u>F</u>			Company	PNPP		
<ul><li>6. Identificat</li></ul>	ion of Components f	Repaired, Modified	or Replac	ement Con	nponents		
Name of	Name of	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
Componen	t Manufacturer	Seliar No.	No.	10.	Duit	or Modification	Stamped
VALVE	ROCKWELL	RA-53	824 .	1E51F066	1982	REPLACEMENT	YES
					1		i 1 1
		·					
	n of Work: Installed	new disk S/N H44	50-10. Also	o replaced (	2) 1-3/8-{	3 studs Ht # D145 a	and
	n of Work: Installed	new disk S/N H446	60-10. Also	o replaced (	2) 1-3/8-8	3 studs Ht # D145	and
(4) 1-3/8-8 he	ex nuts H# TBX						
(4) 1-3/8-8 he	ex nuts H# TBX		ic- 🗍 🐧	o replaced ( Nominal Opelegrees F	erating Pr		and er-

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	. Remarks: N/A
Ī	
_	
_	
N	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
В	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
N	ote: 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>John W. Messenger</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. 33 to use the "NR stamp expires 9-26 20 11
	Date 6/12, 20 0 9 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE
	(name of report organization) [additionable representative)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
i	I, Thomas 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 HSBL&T CT. of HARTFORD have
	and employed by HSB L8T CT. of HARTFORD have inspected the repair, modification or replacement described in this report on June 15, 20 09 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.
ı	By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
į	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 15, 20 9 Signed Themos Signed Commissions NB 9330 "N" "I" "A* OHIO COMM. (Inspector) (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

# 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

• •	77.		ame and address of N		
Nanufactured for First Ener	rgy Corp/Accounts Payable/	P.O. Box 6	100 Johnstown,	, PA 15907-6100	
ocation of installation	Main Warehouse/Perry Nucl		Plant/ 10 Cente	r Road, Perry OH 4	14081
D82-24401-17 R/F	SA105	N/A	name and adde	N/A	2009
Idrawing ho.) SME Code, Section III, Division	(mati, spec. no.) 1974	ltens Winter	le strengthl , 1975	· ICRN)	(year built) N/A
SIME CODE, SECTION III, DIVISION	(edition)		idenda date)	(class)	(Code Case no.)
abricated in accordance with Co	nst. Spec. (Div. 2 only)	N/A Ino.I	Revision	N/A	DateN/A
emarks: DISC FOR DISC PIST	FON ASSY FOR Special Int. (	lass 613	Testable Piston (	Check Valve	
i.O. 78312					
			·		
lom. thickness (in.) N/A	Min. design thickness (in.)	Per #4	Dia. ID (# & i	in.) <u>N/A</u> L	ength overall (ft & in.)N/
Vhen applicable, Certificate Hold	ers' Data Reports are attache	d for each	item of this repo	ort:	
Part or Appurtenance Serial Number	National Board No. in Numerical Order			Appurtenance al Number	National Board No in Numerical Order
·(1) H4460-10	N/A		(26)		
(2)					
(3)			(2B)		
(4)	· .		(29)		<u> </u>
(5)	· · · · · · · · · · · · · · · · · · ·		(30)		<u> </u>
(6)			(31)		
(7)			(32)		<u> </u>
(8)			(33)	<u> </u>	<del> </del>
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			(47)		
22)				************	
23)			1		
22) 23) 24)					ı
23)			(50)		

* 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.

(11/05)

FORM N-2 (Back — Pg. 2 of ____ N/A H4460-10 Certificate Holder's Serial Nos. CERTIFICATION OF DESIGN N/A Design specifications certified by Reg. no. N/A N/A Design report* certified by CERTIFICATE OF COMPLIANCE Parts We certify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III, Division 1. NPT Certificate of Authorization No. . 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 NC_ HSB CT. _ and employed by _ of Hartford, CT have inspected these items described in this Data Report on 3/28/09 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.

1E51-148

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI								
PNF	P No. 9308 F		quired by the Provi	isions of th	ie ASME C	ode Secti	on XI	NQI-1741	
1. (	Owner:	FIRST		44091			Date 06/17/09	1	
10 Center Road, Perry. Ohio 44081 Sheet 1 . of 1									
Plant: Perry Nuclear Power Plant (PNPP)     Unit one									
,	W. I D. C	l D Superm	1550///		01100		<b>*</b> 6.16.1	10/ 110	
3. V	/vorк Репо	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope enter Road, Perry,			•	Type Code Symbol Authorization No		
		10 CE	mer Noad, Ferry,	0110 4400	1		Expiration Date (		
		10 / 155	L DV 1001 ATION		0)/0751		Expiration Suto 1	50 20 2011	
4. 1	dentificatio	n of System; 1E5	RX ISOLATION (	COOLING	SYSTEM				
5. (	a) Applicat	ole Construction Co	ode: <u>ASME SECTI</u> NAME/SECT	ON III CLA	ASS NB ( )N/CLASS	<u>"C4SS /</u> TGL -		on	
		R 19 <u>75</u> /					· · ·		
(	b) Constru	ction Code used for	or repairs, modifica	itions, or r	eplacement		winter 75 tion Addenda	NA Code Case(s)	
	·	Code Section XI ap					tion Addenda	NA Code Case(s)	
(		ble Edition of Secti		Repairs, M	odification,	or Replac	ements:		
•	19 <u>89</u>	<u>n/a</u> 19 <u>n/a</u>	Addenda <u>n/a</u> Code	e Case(s)					
(	e) Design	Responsibilities <u>F</u>	rst Energy Nuclea	r Operatin	g Company	PNPP			
6. Id	dentification	of Components F	Repaired, Modified,	or Replac	ement Con	nponents	•		
- 1 -	Name of component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID,	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
	IPING YSTEM	PULLMAN POWER	1E51	84	1E51 H0072	1985	REPLACEMENT	YES	
		f							
	·								
		of Work: Replaced bly S/N N2038.	snubber S/N 97-6	614263-32	with new s	nubber S	/N 30800103/009 t	using new	
B. T	est Conduc	cted: Hydrostatic	- 🗌 Pneumat	ic- 🔲 1	lominal Op	erating Pi	ressure- 🔲 Otho	er- 🗌	
Р	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 (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: N/A
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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 or the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>John W. Messenger</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. 33 to use the "NR stamp expires 9-26 , 20 11  Date 6/17, 20 9 Signed FENOC-PNPP QE (name of repair organization) (tille)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas 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 CT. of HARTFORD, CT. have
inspected the repair, modification or replacement described in this report on 1016320 09 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 622 20 09 Signed Thomas Sept Commissions NB 9330 "N" "I" "A" OHIO COMM. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-149

NIS-2	Z/NR-1 OWNE						ENTS
PNPP No. 9308 I		quired by the Provi	SIONS OF UI	e ASME Co			NQI-1741
1. Owner	FIRST	TENERGY CORP. Road. Perry. Ohio	44081			Date 05/17/09 Sheet 1 of	2
2. Plant:		lear Power Plant (P Road, Perry, Ohio 4				Unit <u>one</u> ORDER 2000736 (Repair Org. P O. N	
3. Work Perfo	ormed By: <u>FIRSTEr</u> 10 Ce	NERGY Nuclear Ope enter Road, Perry. (			·	Type Code Symbour Authorization No. Expiration Date (	33
4. Identification	on of System: 1E51	1 RX ISOLATION (	COOLING	SYSTEM			
	ble Construction Co	NAME/SECTI	OISIVIDIMOL	ASS NC CA	76L 7/2	19 <u>74</u> Editio	nc
	uction Code used fo Code Section XI ap				Edi 1889	ition Addenda	NA Code Case(s) NA Code Case(s)
19 <u>89</u> (e) Design	able Edition of Section of Market 19 n/a 19 n/a n/a Responsibilities Fion of Components F	Addenda <u>n/a</u> Code irst Energy Nuclear	e Çase(s) r·Operatino	g Company	PNPP	·	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES
						·	
	of Work: Replaced						
F0061 USING NO'S CP7808, 8. Test Condu				8 C.S.ANGL · Nominal Op			O ROD HEAT er- ∏
	37.7 psi Test Temp			•	-	Case(s) N416-2	_

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: N/A
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
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 or the front of this form.
I, <u>John W. Messenger</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
Date 6/18 , 20 09 Signed FENOC-PNPP Museum OE (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas-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 CT. of HARTFORD have
inspected the repair, modification or replacement described in this report on Julie 34, 20 09 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 624, 20 69 Signed The Mark Commissions NB 9330 "N" "I" "A" OHIO COMM. (Inspector) (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

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-	REVISED	DUCANTIO LET	<i>-</i> D	(0)100 0 1/01/04			
				C DATA PACKAGE	NO.	051030	

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

Pg. 1 of 2

2. Manufactured f 3. Location of in 4. Model No., Ser	OT ARRVA NO		RD AVE, MONTREAL . QUES	BC CANADA H4M1T6
3. Location of in	DT ARKVA NY		Certificate Holder)	TO THE OATES
				VA., USA, 24501
	-tallation steem manu	name and address of		DETH PERBY, OH 44081
Model No. Ser	BULLIEUTON FIRST MAN	(name and address)		1. (Uto9/01/29
	ies No., or Type: I	ISTON CHECK Drawing	P011-460090-N01 R	ev & CZM N/A
			<i>2</i> 0	JAN. 29-07
ASME Code, Sec	tion III, Division 1	l: 1974 W	71975 . 2	N/A
•		(edition) · (au	ddėnda date) (class)	(Code Case no.)
: Primp or valve	.VALVE Nominal	. irlet size <u>1 % '</u>	Outlet size 1	
. چائندستنسا در درخ	<del></del>		الإدارة المشتعربة الما	_(in_)
. Material: Body	SA-105 COVER	2 <u>SA-105</u> Dia	c NOREM-02. Boltin	
	•			SA-194, GR 2H
' (a) '	(b)	(c)	(d)	(e)
Cert.	Naț'1	Body	COVER	Disk
Holder's	Board	Serial	Serial	Sarial
Serial No.	No.	No.	No.	No.
	<u></u>	7/0	H/C: MMPKU3 .	7/0: 217
051030-1	N/A N/A	H/C: MMRINI H/C: MMRINI	H/C: MMPKU3	H/C: 21J H/C: 21J
.051030-2 051030-3	N/A	H/C: MMRIN1	H/C: MMPKU3	B/C: 21J
051030-4	N/A	H/C: MMRINI	H/C: MMPKU3	H/C: 21J
051030-5	N/A	H/C: MMRINI	H/C: MMPKU3	H/C: 21J
051030-6	N/A	H/C: MMRIN1	E/C: MMPKU3	H/C: 21J
.051030-7	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
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1651-149 pg 2012

ORM NPV-1	(Back	-	Pg.	2 OF _2_1	255

	doublisiants welderly periol with across
	Cartificate Holder's Serial No. <u>051030</u>
8. Design conditions 500 psi 358 (pressure) (temps	of or valve pressure class 600 (1)
9. Cold working pressure 1440 psi at 1	ones
y. cold working pressure par at a	***
10. Eydrostatic test 2175 psi. Disk di	fferential test pressure 1500 psi
and the contract of the second of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract	
11. Remarks: MATERIALS MEET ASME SECTION II	EDITION: 1995 ADDENDA: 1996
DEAWING RELIES TO REU. 0	. Alexand Ja . 29/07
	(PC00/01/29
CERTIFICATE	OF DESIGN
Design Specification certified by R.D. STADEL	P.E. State OHIO Reg. no. 6201027244
Design report certified by S. ISBITSK	Y P.E. State OUE Reg. no. 22115
	•
CERTIFICATE OF	CONDITINGS
CHALLE EMILE OF	· ·
We certify that the statements made in this repo	ort are correct and that this nump or
valve conforms to the rules for construction of	
N Certificate of Authorization No. N-2797-1	
NOV 2 2 2006	R. 1. A. 60
Date Name VELAN INC.	Signed (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger) (\dagger)
(N Certificate Holder)	(authorized representative)
(N Certificate Holder)	
(N Certificate Holder)	
(N Certificate Holder)	
(N Certificate Holder)  CERTIFICATE OF	(authorized representative)
CERTIFICATE OF	(authorized representative)  INSPECTION
CERTIFICATE OF	(authorized representative)  INSPECTION  issued by the National Board of Boiler and
CERTIFICATE OF  I, the undersigned, holding a valid commission  Pressure Vessel Inspectors and the State or Prov	issued by the National Board of Boiler and rince of OUEBEC and employed by
CERTIFICATE OF  I, the undersigned, holding a valid commission  Pressure Vessel Inspectors and the State or Prov  REGIE DU BATIMENT of OUEBEC ha	issued by the National Board of Boiler and rince of QUEBEC and employed by the inspected the pump, or valve, described in
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of OUEBEC hat this Data Report on Dovernor 30 206, and	issued by the National Board of Boiler and rince of QUEBEC and employed by we inspected the pump, or valve, described in state that to the best of my knowledge and
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Prov REGIE DU BATTMENT of QUEBEC ha this Data Report on November 30 206, and belief, the Certificate Holder has constructed	issued by the National Board of Boiler and rince of QUEBEC and employed by we inspected the pump, or valve, described in state that to the best of my knowledge and
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of OUEBEC hat this Data Report on Dovernor 30 206, and	issued by the National Board of Boiler and rince of OUEBEC and employed by we inspected the pump, or valve, described in state that to the best of my knowledge and
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies by BATIMENT of QUEBEC hat this Data Report on 100cm 200 2006, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.	issued by the National Board of Boiler and rince of QUEBEC and employed by we inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies Du BATIMENT of QUEBEC hat this Data Report on November 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspectors	issued by the National Board of Boiler and rince of QUEBEC and employed by we inspected the pump, or valve, described in state that to the best of my knowledge and this pump, or valve, in accordance with the extor nor his employer makes any warranty,
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of OUEBEC hat this Data Report on November 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspectors of implied, concerning the component	issued by the National Board of Boiler and vince of QUEBEC and employed by we inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the accordance with the accordance of this employer makes any warranty, described in this Data Report. Furthermore,
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of QUEBEC hat this Data Report on 100000000000000000000000000000000000	issued by the National Board of Boiler and vince of QUEBEC and employed by we inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the actor nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of OUEBEC hat this Data Report on November 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspectors of implied, concerning the component	issued by the National Board of Boiler and vince of QUEBEC and employed by we inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the actor nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of OUEBEC hat this Data Report on Over 20 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspector serves or implied, concerning the component on the inspector nor his employer shall be or property damage or a loss of any kind arising	(authorized representative)  INSPECTION  issued by the National Board of Boiler and vince of QUEBEC and employed by two inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the ector nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  J.P.FACHINETTI QC # 13813
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of QUEBEC has this Data Report on Jovember 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspector nor his employer shall be or property damage or a loss of any kind arising Date 100 20 2016, signed	(authorized representative)  INSPECTION  issued by the National Board of Boiler and rince ofQUEBEC and employed by twe inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the cotor nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  J.P.FACHINETTI QC # 13813
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I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of QUEBEC has this Data Report on Jovember 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspector nor his employer shall be or property damage or a loss of any kind arising Date 100 20 2016, signed	(authorized representative)  INSPECTION  issued by the National Board of Boiler and rince ofQUEBEC and employed by two inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the cotor nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  J.P.FACHINETTI QC # 13813
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of QUEBEC has this Data Report on Journal 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspector sexpressed or implied, concerning the component oneither the inspector nor his employer shall be or property damage or a loss of any kind arising Date 100 20 2016 signed (Authorized Inspector)	issued by the National Board of Boiler and rince of QUEBEC and employed by we inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the ector nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  J.P.FACHINETTI QC # 13813 Commissions QUEBEC (Nam B4 [FACHEMEN] WALGERDOV and
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of QUEBEC has this Data Report on Jovember 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspector nor his employer shall be or property damage or a loss of any kind arising Date 100 20 2016, signed	(authorized representative)  INSPECTION  issued by the National Board of Boiler and rince of QUEBEC and employed by twe inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the cotor nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  J.P.FACHINETTI QC # 13813  Commissions QUEBEC (Nar. Bd. FERS-ANP)
I, the undersigned, holding a valid commission Pressure Vessel Inspectors and the State or Proventies of QUEBEC has this Data Report on Journal 30 206, and belief, the Certificate Holder has constructed ASME Code, Section III, Division 1.  By signing this certificate, neither the inspector section of the component of the inspector nor his employer shall be or property damage or a loss of any kind arising Date 100 20/2016 signed (Authorized Inspector)	issued by the National Board of Boiler and rince of QUEBEC and employed by we inspected the pump, or valve, described in a state that to the best of my knowledge and this pump, or valve, in accordance with the ector nor his employer makes any warranty, described in this Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  J.P.FACHINETTI QC # 13813 Commissions QUEBEC (Nam B4 [FACHEMEN] WALGERDOV and

1E51-150

	Rev. 9/11/00			ne ASME C		· · · · · · · · · · · · · · · · · · ·	NQI-1741
Owner:	FIRS	TENERGY CORP.		<u></u> -		Date 06/24/09	
_	10 Center	Road, Perry Ohio	44081			Sheet 1 of	1
			•				
Plant: _		lear Power Plant (F				Unit <u>one</u>	
-	10 Center I	Road, Perry, Ohio 4	14081			ORDER 2003284 (Repair Org. P.O. A	
Work Peric	ormed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	pany PNPP		Type Code Symb	ool Stamp <u>N</u>
	10 C	enter Road, Perry,	Ohio 4408	1		Authorization No.	33
						Expiration Date (	09 <u>-26-2011</u>
Identificatio	n of System: 1E5	1 RX ISOLATION	COOLING	SYSTEM			X8 47
(a) Applicat	ole Construction C	ode: <u>ASME SECTI</u> NAME/SECT	ON III CLA				on
WINTE	R 19 75		Case(s) N		TEL 7/2	409	
		for repairs, modifica			s: 1974	winter 75	NA
	•				Ed	tion Addenda	Code Case(
(c) ASME	Jode Section XI a	pplicable for Inservi	ice Inspec	uon:	1889 Ed	NA tion Addenda	NA Code Case(
(d) Applica	ble Edition of Sect	tion XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:	-
19 <u>89</u>	<u>n/a</u> 19 <u>n/a</u>		e Case(s)				
(e) Design	Reśponsibilities F	First Energy Nuclea		д Сотрапу	PNPP	•	
-			or Replac	ement Con	nponents		
Identification	n of Components I	Repaired, Modified,	•				
Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME Code
<del></del>	<del></del>	<del></del>	<del></del>	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Name of Component PIPING	Name of	Manufacturer	Nat. Board		1	Replacement,	Code
Name of Component PIPING	Name of Manufacturer PULLMAN	Manufacturer Serial No.	Nat. Board No.	ID. 1E51	Built	Replacement, or Modification	Code Stamped
Name of Component PIPING	Name of Manufacturer PULLMAN	Manufacturer Serial No.	Nat. Board No.	ID. 1E51	Built	Replacement, or Modification	Code Stamped
Name of	Name of Manufacturer PULLMAN	Manufacturer Serial No.	Nat. Board No.	ID. 1E51	Built	Replacement, or Modification	Code Stamped
Name of Component PIPING	Name of Manufacturer PULLMAN	Manufacturer Serial No.	Nat. Board No.	ID. 1E51	Built	Replacement, or Modification	Code Stamped
Name of Component PIPING SYSTEM	Name of Manufacturer PULLMAN POWER	Manufacturer Serial No.	Nat. Board No. 84	ID. 1E51 H2074	Built 1985	Replacement, or Modification  REPLACEMENT	Code Stamped
Name of Component PIPING SYSTEM	Name of Manufacturer PULLMAN POWER	Manufacturer Serial No.	Nat. Board No. 84	ID. 1E51 H2074	Built 1985	Replacement, or Modification  REPLACEMENT	Code Stamped

Ρ	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
9	. Remarks: N/A
_	
<u>N</u>	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
<u>B</u>	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Z	ote: 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>John W. Messenger</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
	Date 6/24 2009 Signed FENOC-PNPP Musicus QE name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas 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
	and employed by HSB CT. of HARTFORD CONN. have
1	inspected the repair, modification or replacement described in this report on JUNE 24-2009 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 so loss of any kind arising from or connected with this inspection.
	Date 6,24, 20 09 Signed Manney Commissions NB 9330 "N" "I"."A* OHIO COMM. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-151

NIS-2/NF		R'S REPORT					ENTS	
PNPP No. 9308 Rev. 9			510115 01 (1		OUE SELII		NQI-1741	
1. Owner:	FIRST	ENERGY CORP.	····			Date6-29	<u>)-9</u>	
	10 Center R	Sheet 1 of	1					
2. Plant:	Unit <u>1</u>							
<del></del>	200263398 (Repair Org. P.O. N	Jo., etc.)						
Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u>								
	10 Ce	nter Road, Perry, (	Ohio 4408	<u>1</u>		Authorization No	33	
	•					Expiration Date (	09/28/2011	
4. Identification of	System: <u>REA</u>	CTOR CORE ISO	LATION C	COOLING 1	1E51			
5. (a) Applicable C	onstruction Co	de: <u>ASME Section</u>			<b>~</b>	,19 <u>74</u> Editi	on	
WINTER	19 <u>75</u> A	ddenda Code (	Case(s) <u>*</u>	N413, N27	5, N242, 1	N241, N224, 1728,	1644-5	
	·	·				<u> </u>		
(b) Construction	n Code used fo	r repairs, modifica	tions, or re	eplacèmen		W 75	* Code Case(s)	
(c ) ASME Code	e Section XI ap	plicable for Inservi	ce Inspect	tion:			none	
			·		Edi	tion Addenda	Code Case(s)	
		on XI Utilized for R		odification,	or Replac	ements:		
			Case(s)					
6. Identification of		RSTENERGY CO		ement:Cor		•		
<u>_</u>			Nat.	<del></del>	· · · · · · · · · · · · · · · · · · ·	Repair,	ASME	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	.Other ID.	Year Built	Replacement, or Modification	Code Stamped	
	ILLMAN WER	1E51	84	1E51	1985	Replacement	YES	
						· ·		
					<del> </del>			
7. Description of W	ork: INSTALL	ED HEAD SPRAY	PIPING L	ISING 3 ST	TUDS 1 3/	8-8 HT# D145 AN	D 8	
		FLANGE 1. USED		• •			į.	
8. Test Conducted:	: Hydrostatic	Pneumati	ic- 🔲 1	ominal Op	erating P	ressure- 🗵 Oth	er- 🗌	
Pressure 1036	psi Tes	st Temperature 14	3 c	legrees F	Code	Case(s) N/A		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEN PNPP No. 9308 Rev. 9/11/00	MENTS (Back) NQI-1741
9. Remarks: USED 1 NUT 1 1/8-8 HT# TRS FOR FLANGE 3. USED 1 STUD 7/8-9 HT# )	X492 AND 2 NUTS .
7/8-9 HT# 2A73 FOR FLANGE 4.	
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 list drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items report is included on each sheet, and (3) each sheet is numbered and the number of the front of this form.	1 through 6 of this
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick certify that to the best of my knowledge and belief the statements ma correct and the repair, modification or replacement of the items described above conforms to Sec Code and to the National Board Inspection Code "NR" rules.	
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 2	<u> 8 Sept.</u> , 20 <u>11</u>
Date 29 JUNE, 20 09 Signed FENOC-PNPP Multiplication (authorized representative)	QC Tech. (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas G. Laps,holding a valid commission issued by The Nation	
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of	OHIO
and employed by HSB CT. of Hartford, Conn.	· have
inspected the repair, modification or replacement described in this report on Julia 29 20 09	and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed	d 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, express	sed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my emplo	yer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connecte	ed with this inspection.
	" "A" Óhio Comm. (include endorsements), diction, and no.)

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1G33-172

NPP No. 9308 F		quired by the Provi	isions of th	ne ASME Co	ode Secti	on XI	NQI-1741
. Owner;	FIRST	ENERGY CORP.				Date 6/16/09_	
	10 Center F	Road, Perry Ohio	44081			Sheet 1 of	3
Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit one .	
	10 Center R	Road, Perry, Ohio 4	4081			order 20036083 (Repair Org. P.O. N	
Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	npany PNPP		Type Code Symb	ool Stamp <u>I</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	. 33
						Expiration Date 5	9/26/2011
Identificatio	n of System: 1G3	3 Reactor Water C	ieanup				
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(a) Applicat	ole Construction Co	ode: ASME Section				19 <u>74</u> Editi	חס
		NAME/SECT			CL 7/2		
Winter	19 <u>75</u> A	Addenda Code	Case(s) N	I/A!	EL 7/	६/७५	
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(b) Constru	iction Code used to	or repairs, modifica	tions or r	1	a: 1074	1057	11/0
(5) 0011011				eolacement		VV/D	N/A
		,	100115, 01 1	epiacement		W75 ition Addenda	N/A Code Case
(c.) ASME (	ode Section XI an				Ed	ition Addenda	Code Case
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NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 9. Remarks: N/A 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, JOHN W. MESSENGER, 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. to use the "NR stamp expires 9-26 National Board Certificate of Authorization No. 33 Messenm FENOC-PNPP _ 20 09___ Signed . (name of repair organization) (authorized representative) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION 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 _ and employed by HSB CT. of HARTFORD inspected the repair, modification or replacement described in this report on JUNE 25 20 04 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. NB 9330 NT A" CDV (National Board (include endorsements), Commissions NR9330 and jurisdiction, and no.)

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NIS-2	/NR-1 OWNE						ENTS
PNPP No. 9308 I		quired by the Prov	isions of th	ie ASME Co	ode Section	on XI	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 6/19/09_	
		Road, Perry, Ohio	44081	<del></del>		Sheet 1 of	
2. Plant:	Perry Nucl	ear Power Plant (F	NPP)			Unit <u>one</u>	
	10 Center F	Road, Perry, Ohio 4	14081			Order 20036083 (Repair Org. P.O. N	
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3. Work Perio	ormed By: FIRSTE					Type Code Symb	
•	10 Ce	enter Road, Perry,	Onio 4408	<u>.1</u>		Authorization No.	
i					•	Expiration Date 9	12012011
4. Identification	n of System: 1G3	3 Reactor Water C	leanup	m 0/25/69			····
5. (a) Applical	ole Construction Co	ode: ASME Section	AHIII	1/C CL	455.2	,1974 Editi	on .
Winter	19 <u>75</u> /	Addenda Code	Case(s) N	/A			
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(b) Constru	action Code used for	or repairs, modifica	itions, or r	eplacement		tion Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	policable for Inservi	ice Inspec	tion:	1989		N/A
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19 <u>89</u> .	NA 19 NA	Addenda N/A Code	e Case(s)				•
(e) Design	Responsibilities F	ENOC (PNPP)	············				•
6. Identificatio	n of Components F	Repaired, Modified,	or Replac	ement Con	ponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	BORG WARNER	50671	N/A	1G33F039	1979	REPLACEMENT	YES
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NIS-2/N PNPP No. 9308 R	NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) ev. 9/11/00 NQI-1741
9. Remarks: I	N/A
drawings report is	all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or s may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on tof this form.
	CERTIFICATE OF COMPLIANCE
correct and th	MESSENGER, certify that to the best of my knowledge and belief the statements made in this report are repair, modification or replacement of the items described above conforms to Section XI of the ASME the National Board Inspection Code "NR" rules.
National Boar	rd Certificate of Authorization No. 33 to use the "NR stamp expires 9-26 , 20 11
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
Pressure Ves	AS G. LAPSholding a valid commission issued by The National Board of Boiler and sell Inspectors and certificate of competency issued by the jurisdiction of
	by HSB CT. of HARTFORD, CT. have
1	repair, modification or replacement described in this report on June 25 20 09 and state that to
-	y knowledge and belief, this repair, modification or replacement has been completed in accordance with
ţ	the ASME Code and the National Board Inspection Code "NR" rules.
	s certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
-	e work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
1 .	or any personal injury, property damage or loss of any kind arising from or connected with this inspection.  Commissions NB 9350 NTA OHIO (OLGO)  (Inspector) (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

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2. Plant:		lear Power Plant ( Road, Perry, Ohio				Unit <u>1</u> 200281931	
•	10 Octilor	1000, 1 0117, 01110	77001			(Repair Org. P.O. N	lo., etc.)
3. Work Per	formed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPF		Type Code Syml	bol Stamp
	10 C	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	
	~				,	Expiration Date	09/28/2011
<ol> <li>Identificat</li> </ol>	ion of System: LOC	CAL PANELS AND	RACKS				
5. (a) Applic	able Construction C	ode: ASME Sectio	n III Class	NC C	1455 2	19 <u>74</u> Editi	on
	ER 19 75					. ,	
1728						-	
(b) Const	ruction Code used t	or repairs, modific	ations, or i	replacemer		W 1975 ition Addenda	none Code Case
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(e) Desig	n Responsibilities <u>F</u>		e Case(s) ORP.			المراز والسواعية	, t
	on of Components	Repaired, Modified	l, or Repla	cement Co	nponents	· }	
<ol> <li>Identificati</li> </ol>	-T	Manufactures	Nat.	Other	Year	Repair,	ASME
Name of Componen	Name of Manufacturer	Manufacturer Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
Name of	3	}	3	1	1985		
Name of Componen PIPING	Manufacturer JOHNSON	Serial No.	No.	ID,		or Modification	Stamped
Name of Componen PIPING	Manufacturer JOHNSON	Serial No.	No.	ID,		or Modification	Stamped
Name of Componen PIPING	Manufacturer JOHNSON	Serial No.	No.	ID,		or Modification	Stamped
Name of Componen PIPING SYSTEM	Manufacturer JOHNSON	Serial No.	No.	ID.	1985	or Modification Replacement	Stamped

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
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 the front of this form.
CERTIFICATE OF COMPLIANCE
I, Michael J Tepsick 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 11
Date 21 APRIL, 20 09 Signed FENOC-PNPP Multiple (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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on Apr. 122 20 <u>C9</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 422, 20 61 Signed Warmer Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (Include endorsements), and jurisdiction, and no.)
· ·

IM17-008

NIS-2		R'S REPORT				REPLACEM	ENTS	
PNPP No. 9308 R							NQI-1741	
1. Owner:	FIRS	TENERGY CORP.		<del></del>		Date 3-24-200	9	
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1	
ĺ							i	
2. Plant:	Реггу Мис	ear Power Plant (F	PNPP)		•	Unit 1		
	10 Center F	Road, Perry, Ohio	<u>14081</u>	<del></del>		200276695 (Repair Org. P.O. N	lo., etc.)	
3. Work Perfor	Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u>							
	10 Ce	enter Road, Perry,	Ohio 4408	<u> 31</u>		Authorization No	33	
			•	*		Expiration Date	09/28/2011	
4. Identification	n of System: 1M1	7 CONTAINMENT	VACUUN	RELIEF		. '		
5. (a) Applicab	le Construction Co	ode: <u>ASME Section</u> NAME/SECT				,19 <u>74</u> Editi	on	
WINTER	R 19 75' /	Addenda Code			5			
<u> </u>	, , , , , , , , , , , , , , , , , , , ,		(-) _		<u> </u>			
(b) Constru	ction Code used fo	or repairs, modifica	ations, or r	eplacemen	ts: <u>1974</u> Edi	W 1975 tion Addenda	none Code Case(s)	
		pplicable for Inserv			1989		none Code Case(s)	
(d) Applicab	le Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	ements:		
19 <u>89</u> ,	19 <u>none</u>	Addenda <u>non</u>	e Case(s)					
(e) Design F	Responsibilities <u>Fl</u>	RSTENERGY CO		·.	. ,	gara — — — — — — — — — — — — — — — — — —		
6. Identification	of Components F	Repaired, Modified,	, or Repla	cement Cor	nponents			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES	
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		***************************************						
					<u></u> _			
•		<u>ED SNUBBER S/N</u> 0002 AND 1M17H		ND 25957 \	WITH SNI	UBBERS S/N 429	992 AND	
	ted: Hydrostatio			Nominal Op	erating P	ressure- Oth	er- 🗌	
Pressure N/	A psi Tes	st Temperature N	<u>/A</u> c	legrees F	Code	Case(s) <u>N/A</u>	<u> </u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (B. PNPP No. 9308 Rev. 9/11/00	ack)
9. Remarks:	
9. Remarks:	<del></del>
<u> </u>	<del></del>
	·
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SEC	CTION
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECI	EIVED.
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 or report is included on each sheet, and (3) each sheet is numbered and the number of sheets is red the front of this form.	of this
CERTIFICATE OF COMPLIANCE	·
I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report correct and the repair, modification or replacement of the items described above conforms to Section XI of the AS 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	11
Date 25 March, 20 09 Signed FENOC-PNPP Mul Jack QC Tech. (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 Boile	er and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO	,
and employed by HSB CT. of Hartford, Conn.	have
inspected the repair, modification or replacement described in this report on MARCH 26, 20 09 and state that	t 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	le in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspe	ction.
Date 3 36 . 20 09 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Com (inspector) (National Board (include endorsen and jurisdiction, and no.)	
	l

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	NIS-2		ER'S REPOR				REPLACEM	ENTS	
PNPP	No. 9308 F	Rev. 9/11/00	————————					NQI-1741	
1. Ov	vner: _	FIRS	TENERGY CORP.				Date <u>3-24-200</u>	9	
	_	10 Center i	Road, Perry, Ohio	44081	<u>.</u>		Sheet 1 of	1	
							•		
2. Pla	ant:		lear Power Plant (				Unit 1		
	_	10 Center I	Road, Perry, Ohio	44081			200276692 (Repair Org. P.O. N	io., etc.)	
3. Wa	ork Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Sym	ool Stamp N	1 <u>R</u>
		10 Ce	enter Road, Perry,	Ohio 440	<u>31</u>		Authorization No	•	
	Expiration Date <u>09/28/2011</u>								
4. Ide	ntificatio	n of System: 1M1	7 CONTAINMENT	VACUUN	RELIEF 25-25-2				_
5. (a)	Applicat	ole Construction Co	ode: <u>ASME Sectio</u> NAME/SECT		82		19 <u>74</u> Editi	on	
	WINTE	R 19 <u>75</u> ,	Addenda Code	Case(s) N	1272, 1644-	5	· · · · · · · · · · · · · · · · · · ·	*	
									-
(b)	Constru	iction Code used for	or repairs, modifica	ations, or r	eplacemen		W 1975 Addenda	none Code Case(s	٠,
(c)	ASME (	Code Section XI ap	oplicable for Inserv	rice Inspec	tion:	1989	none	none	
(4)	Applicat	ble Edition of Secti	ion YI Utilizad for F	Panaira M	odification		ition Addenda	Code Case(s	<b>;)</b>
(0)		19 <u>none</u>			ouncadon,	or repla	cements.		
(e)		Responsibilities <u>F</u>	Cod	e Case(s)			** ***		
• •	-	n of Components F			cement Co	mponents	: _	•	
	ame of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME	
Con	nponent	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped	
PIPI SYS	NG TEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES	
			, , , , , , , , , , , , , , , , , , , ,	1					
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7 Dos		of Morte DEDLAC	ED SNI IDDED SA	1 20529 4	ND 36004	MITH ON	UBBERS S/N 429	90 4 4 10	
		PLANT ID 1M17H			ND 20001	VVIII SIN	UDDERS SIN 429	OS AND	i
		cted: Hydrostatio	·_		Nominal Op	erating P	ressure- Othe	er- 🗌	
		, <u> </u>	st Temperature <u>N</u>	-	legrees F	•	Case(s) N/A		
			Calabia Calabia						

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00	
9. Remarks:	
5. Relidiks.	_
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1.0.6 DEING IN FEELOT AND HIDIODICTIONAL ALITHODITY CONCURRENCE HAVING BEEN DECENTED	
1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED	<u>).                                    </u>
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 recorde the front of this form.	;
CERTIFICATE OF COMPLIANCE	$\neg$
I, Michael J Tepsick , 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 11	
Date 25 March, 20 09 Signed FENOC-PNPP ML 2nd QC Tech.	
(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 CT. of Hartford, Conn. have	
inspected the repair, modification or replacement described in this report on MARCH2620 on 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,	ŀ
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 26, 20 09 Signed Thomas South Commissions NB 9330 "N" "I" "A" Ohio Comm.	
(inspector)   (National Board (include endorsements), and jurisdiction, and no.)	1.

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1M17-010

NIS-2/NR-1 OWNE	ER'S REPOR quired by the Prov					ENTS
PNPP No. 9308 Rev. 9/11/00		1310113 01 6	THE AGIVIL C			NQI-1741
1. Owner: FIRS	TENERGY CORP.		`		Date4-13	3-9
10 Center I	Road, Perry, Ohio	44081	<del></del> .		Sheet 1 of	1
2. Plant: Perry Nuc	<u>lear Power Plant (</u>	PNPP)	<del></del>		Unit 1	-
10 Center F	Road, Perry, Ohio	44081	<del></del>		200276693 (Repair Org. P.O. N	lo., etc.)
3. Work Performed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPF	2	Type Code Syml	bol Stamp <u>NR</u>
10 Ce	enter Road, Perry.	Ohio 440	<u>31</u>		Authorization No	33
					Expiration Date (	09/28/2011
4. Identification of System: 1M1	7 CONTAINMENT	VACUUN	RELIEF			
5. (a) Applicable Construction Co	ode: <u>ASME Sectio</u> NAME/SECT				,19 <u>74</u> Editi	on
<u>WINTER</u> 19 75	Addenda Code	Case(s) <u>N</u>	<u>1272, 1644</u>	-5		
· (1) O	· · · · · · · · · · · · · · · · · · ·			1 4074		
(b) Construction Code used for	or repairs, modifica	ations, or i	eplacemer		tion Addenda	none Code Case(s)
(c ) ASME Code Section XI ap		• •			none ition Addenda	none Code Case(s)
(d) Applicable Edition of Secti		-	odification,	or Replac	cements:	
19 <u>89</u> 19 <u>none</u>	. Cod	e Case(s)				
(e) Design Responsibilities FI						
6. Identification of Components F	Repaired, Modified	<u>,                                    </u>	cement Co	mponents		
Name of Name of Component Manufacturer	Manufacturer Serial No.	Nat, Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES
·						
				<del> </del>		
7. Description (IV. ). DEDIAO		1.00500.4	ND 00004	AUTU ON	IDDEED 071 4004	
<ol> <li>Description of Work: <u>REPLAC</u> <u>S/N 42988</u>, <u>PLANT ID 1M17H</u></li> </ol>			NU 29601\	WITH SNL	JBBEKS S/N 4298	ST AND
8. Test Conducted: Hydrostatic			Nominal Op	erating P	ressure- 🗍 Othe	er- 🗌
	st Temperature N		legrees F	-	Case(s) N/A	<u> </u>

	IIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
9. Ken	marks:
NO NA	AMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION
1.8.6 B	EING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
6	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
corre	chael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are ect and the repair, modification or replacement of the items described above conforms to Section XI of the ASME e and to the National Board Inspection Code "NR" rules.
Natio	onal Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept. 20 11
Date	13 April , 20 09 Signed FENOC-PNPP Mad) Time QC Tech.  (name of repair organization) (authorized representative) (title)
	(name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
1 -	omas G. Laps,holding a valid commission issued by The National Board of Boiler and
1	sure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
1	employed by HSB CT. of Hartford, Conn. have
	ected the repair, modification or replacement described in this report on Apol 16, 20 og and state that to
the be	est of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section	on XI of the ASME Code and the National Board Inspection Code "NR" rules.
By sig	gning this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
Į.	erning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any m	nanner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date _	4 16, 20 99 Signed Themse Herry Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)
	1

IM17-011

	Rev. 9/11/00						NQI-174
. Owner: _	FIRS	TENERGY CORP.			•	Date4-2	5-9
	10 Center				•	Sheet 1o	f <u>1</u>
Plant: _	Perry Nuc	lear Power Plant (	PNPP)			Unit 1	
<del>-</del> .	10 Center	Road, Perry, Ohio	44081			200276694 (Repair Org. P.O. I	No., etc.)
Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPI	<u>-</u>	Type Code Sym	ibol Stamp
	10 C	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	o. <u>33</u>
	on of System: 1M1					Expiration Date	09/28/201
	ble Construction C	NAME/SECT	FION/DIVISIO	N/CLASS		19 <u>74</u> Edit	ion
c) ASME (	uction Code used f Code Section XI ap ble Edition of Sect	oplicable for Inserv	vice Inspec	ction:	1989 Ed	ition Addenda none ition Addenda	none Code Cas none Code Cas
	19 <u>none</u>	Cod	ne le Case(s)		, от керта	•	. ,
(e) Design	Responsibilities <u>F</u>	Cod IRSTENERGY CC	ne le Case(s) DRP.			•	
e) Design dentification Name of		Cod IRSTENERGY CC	ne le Case(s) DRP.			•	ASME Code Stamped
e) Design dentification Name of Component	Responsibilities <u>F</u> n of Components F Name of	RSTENERGY CC Repaired, Modified Manufacturer	ne le Case(s) DRP. I, or Repla Nat. Board	cement Co	mponents Year	Repair, Replacement,	Code
e) Design dentification Name of Component	Responsibilities <u>F</u> n of Components f Name of Manufacturer PULLMAN	RSTENERGY CC Repaired, Modified Manufacturer Serial No.	ne Case(s) ORP.  or Repla Nat. Board No.	Other ID.	mponents Year Built	Repair, Replacement, or Modification	Code Stamped
(e) Design	Responsibilities <u>F</u> n of Components f Name of Manufacturer PULLMAN	RSTENERGY CC Repaired, Modified Manufacturer Serial No.	ne Case(s) ORP.  or Repla Nat. Board No.	Other ID.	mponents Year Built	Repair, Replacement, or Modification	Code Stamped
e) Design dentification Name of Component	Responsibilities <u>F</u> n of Components f Name of Manufacturer PULLMAN	RSTENERGY CC Repaired, Modified Manufacturer Serial No.	ne Case(s) ORP.  or Repla Nat. Board No.	Other ID.	mponents Year Built	Repair, Replacement, or Modification	Code Stamped
dentification Name of Component PIPING YSTEM	Responsibilities <u>F</u> n of Components f Name of Manufacturer PULLMAN	RSTENERGY CO IRSTENERGY CO Repaired, Modified Manufacturer Serial No.	ne le Case(s) DRP. * I, or Repla Nat. Board No. N/A	other ID.	Year Built 1985	Repair, Replacement, or Modification Replacement	Code Stamped YES

F	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQI-1741	
	). Remarks:	
Ĭ	. Achians.	
-		
<b> </b> _		
1	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.	
	OLO DELITO AND TO THE TOTAL OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF THE TANK OF	_
Ν	ote: 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 o	n
	the front of this form.	
	CERTIFICATE OF COMPLIANCE	
	I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are	
Į	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 11	
	Date 25 April , 20 09 Signed FENOC-PNPP Muld Tyrid OC Tech.  (name of repair organization) (authorized representative) (title)	
1	(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 CT. of Hartford, Conn. have	
ı	inspected the repair, modification or replacement described in this report on April 25, 20 09 and state that to	
ļ	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 425, 20 09 Signed Thomas Date Commissions NB 9330 "N" "I" "A" Ohio Comm.	
	(inspector) (National Board (include endorsements), and jurisdiction, and no.)	
-		

"CORRECTES COPY 10-4-07 1M51-028

NIS-2	/NR-1 OWNE	R'S REPOR					ENTS
PNPP No. 9308 F				- TOME OF			NQI-1741
1. Owner:	FIRST	ENERGY CORP.				Date <u>10/4/07</u>	
-	10 Center F	Road, Perry Ohio	44081			Sheet 1 of	1
							•
2. Plant: _	. Perry Nucl			<del></del>		Unit 1	
	10 Center F	Road, Perry, Ohio 4	14081			200153518 (Repair Org. P.O. N	lo., etc.)
2 Mark Darfa	med Dur. CIDCTE	NEDOV Nuclear On	acating Can	nnes DNDD		Typo Codo Symil	ool Stomp NID
3. Work Pend	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP  Type Code Symbol Stamp NR  10 Center Road, Perry, Ohio 44081  Authorization No. 33						
	10 Ce	inter (Voad, r City,	07110 4400	<u> </u>	•	Expiration Date 9	
4 Identificatio	n of System; <u>CUM</u>	IRLISTIRI E GAS (	CONTROL	11/151		· -	
4							
5. (a) Applicat	ole Construction Co	name/sect				19 <u>74</u> Editi	on ·
Winter	19 <u>75</u> /	Addenda Code	Case(s) <u>I</u>	ONE			······
						) . (Tage .	<del></del>
(b) Constru	iction Code used fo	or repairs, modifica	itions, or r	eplacement		tion M75 Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1989 Edi	NONE Addenda	N/A Code Case(s)
(d) Applical	ble Edition of Section	on XI Utilized for R	epairs, Mo	odification, o			, 5500 5235(3)
19 <u>89</u> ,	19 <u>N/A</u>	Addenda <u>N/A</u>	<del></del>				
(e) Design	Responsibilities <u>Fi</u>		e Case(s)		•		•
6. Identification	n of Components R	epaired, Modified,	or Replac	ement Com	ponents	•	
Name of	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
Component	Mandacturer	Senai No.	No.	10.	Dain	or Modification	Stamped
VALVE	BORG WARNER	53874	. N/A	1M51F10b	1980	REPLACEMENT	YES
				·			
7. Description	of Work: <u>INSTALL</u>	ED 36 BONNET/E	BODY 5/8	- 11 HH N	UTS 211	-T# 506C AND 15	HT#P762
					· · · · · · · · · · · · · · · · · ·		
8: Test Conduc	cted: Hydrostatic	· □ Pneumat	ic- 🗌 1	lominal Ope	erating Pr	ressure- 🗌 Oth	er- 🗌
Pressure N	<u>/A</u> psi Tes	t Temperature <u>N/</u>	<u>'A</u> c	legrees F	· Code	Case(s) N/A	
						· · · · · · · · · · · · · · · · · · ·	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) P No. 9308 Rev. 9/11/00 NQI-1741
Remarks:
NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
NG IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
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  Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are preciously or replacement of the items described above conforms to Section XI of the ASME ode and to the National Board Inspection Code "NR" rules.  ational Board Certificate of Authorization No33
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION  Thomas G Laps

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#### 1M51-029

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI							
PI	NPP No. 9308 R							NQI-1741
1.	Owner:	FIRST	ENERGY CORP.				Date <u>10/4/07</u>	
	10 Center Road, Perry, Ohio 44081 Sheet 1 of 1							
2.	Plant:	Perry Nucl	ear Power Plant (F	NPP)	<del>-</del>		Unit 1	
	10 Center Road, Perry, Ohio 44081 200153517 (Repair Org. P.O. No., etc.)							
3.	3. Work Performed By: <u>FIRSTENERGY Nuclear Operating Company PNPP</u> Type Code Symbol Stamp <u>NR</u> .							
		10 Ce	nter Road, Perry,	Ohio 4408	<u>11</u>	•	Authorization No.	
							Expiration Date 9	9/28/08
4.	Identification	n of System: <u>COM</u>	IBUSTIBLE GAS (	CONTROL	1M51			
· 5.	(a) Applicab	le Construction Co	ode: ASME SECTI NAME/SECT			· · · · · · · · · · · · · · · · ·	,19 <u>74</u> Editio	on
	Winter	19 <u>75</u> .4	Addenda Code	Case(s)	NONE			
	(b) Constru	ction Code used fo	or repairs, modifica	itions, or r	eplacement		tion Addenda	N/A Code Case(s)
	(c) ASME	Code Section XI ap	plicable for Inservi	ce Inspec	tion:	1989 Edi	NONE .	N/A Code Case(s)
	(d) Applicat	ole Edition of Section	on XI Utilized for R	epairs, Mo	odification, o	or Replac	ements:	
	19 <u>89</u>	19 <u>N/A</u>				•		
	(e) Design I	Responsibilities <u>Fi</u>		e Case(s)				~~
6.	Identification	of Components R	epaired, Modified,	or Replac	ement Con	nponents	•	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
. [	VALVE	BORG WARNER	53873	N/A	1M51F10a	1980	REPLACEMENT	YES
					·		•	
f								
:								
-								
L								
7.	Description (	of Work: INSTALL	ED 36. BONNET/E	BODY 5/8	– 11 HH N	UTS HT	# 506C.	
R	Test Conduc	ted: Hydrostatic		ic- [] +	Nominal Op	erating P	ressure- Othi	er- 🗌
	Pressure N/	• •	st Temperature N		degrees F	_	Case(s) N/A	-: L

Р	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQI-1741
0	. Remarks:
9	. Reflacks.
_	
	$\cdot$
_	NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
F	BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
_=	
N	ote: 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 or the front of this form.
	CERTIFICATE OF COMPLIANCE
	I, Michael J Tepsick, 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 08
	Date 4 OCT. , 20 07 Signed FENOC-PNPP Mult Jan QC Tech.  (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 ofOHIO
	and employed by HSB_CT. of Hartford, Conn. have
	inspected the repair, modification or replacement described in this report on or 2007. 8, 20 07. and state that to
	the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
1	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
٠	any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
	Date 10 8 , 20 07 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

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IN22-067

NIS-2		ER'S REPOR				REPLACEM	ENTS
PNPP No. 9308 R		equired by the Prov		HE ASIME C		ION XI	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date4-2	7-9
·	10 Center	Road, Perry, Ohi	o 44081			Sheet 1 of	1
	• .						
2. Plant:	Perry Nuc	lear Power Plant (	PNPP)			Unit 1	<del></del>
	10 Center I	Road, Perry, Ohio	44081	<del></del>		200284468 (Repair Org. P.O. I	Vo., etc.)
3 Work Perfor	mad Rv. FIRSTE	NERGY Nuclear Op	veration Co	moony DNIDE	<b>.</b>	Type Code Sym	hal Stama ND
o. Work r crior		enter Road, Perry,				Authorization No	
		0,7,0,7,1,000,7,1,01,7,1				Expiration Date	
4 Identification	of System: MAI	N, REHEAT, EXTI	SACTION	AND MISC	DDAINI		
					. DRAINS	5 111/22	
5. (a) Applicable	le Construction Co	ode: ASME Section	n III Clas	N/CLASS		,19 <u>74</u> Editi	on
WINTER	R . 19 <u>75</u> ,	Addenda Code	Case(s) <u>N</u>	1272, 1644	-5		
(b) Construc	ction Code used f	or repairs, modific	ations, or	eplacemen	its: <u>1974</u>	<u>W 1975</u>	none
(a) ASME C	ada Saction VI ar	èlicable for lecon	ion Incon	fion:		ition Addenda	Code Case(s)
(C) ASME C	ode Section Al Al	plicable for Inserv	rice inspec	LIUII.	1989 Edi	tion Addenda	none Code Case(s)
(d) Applicab	le Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	cements:	
19 <u>89</u> ,	19 <u>none</u>	Addenda <u>nor</u>	e Case(s)				
(e) Design F	Responsibilities <u>F</u>	RSTENERGY CC	RP.			• .	
6. Identification	of Components F	Repaired, Modified	, or Repla	cement Co	mponents	ž.	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
DIDING	DULLIAAN	4147	No.	N/A	4005	or Modification	Stamped
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES
			<b> </b>		<del> </del>		
		-		<u> </u>	-		<b> </b>
					<u> </u>		
. Description o	f Work: REPLAC	ED SNUBBER S/I	V 15988 V	/ITH SNUB	BER S/N	18237.	
PLANT ID 11	N22H0089.		· · · · · · · · · · · · · · · · · · ·			-	
3. Test Conduct	ted: Hydrostatic	- Pneumat	ic- 🗌 1	Nominal Op	erating P	ressure- 🗌 Othe	ег- 🗌
Pressure N/A	A psi Tes	st Temperature N	<u>/A</u> c	legrees F	Code	Case(s) N/A	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NOI-1741
9. Remarks:
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.
the front of this form.
CERTIFICATE OF COMPLIANCE
I, Michael J Tepsick, 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 11
Date 27 April 20 09 Signed FENOC-PNPP Mod OC Tech. (name of repair organization) (authorized representative) (Utle)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Lapsholding 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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on April 28, 20 9, 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 4 28, 20 09 Signed Therefore Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements),
and jurisdiction, and no.)

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IN22-068

NIS-2/NR-1 OWN	ER'S REPOR					ENTS	
PNPP No. 9308 Rev. 9/11/00						NQI-1741	
1. Owner: FIRS	TENERGY CORP.				Date4-2	7-9	
10 Center	10 Center Road, Perry, Ohio 44081					1	
	lear Power Plant (	-			Unit 1		
10 Center I	Road, Perry, Ohio	44081			200284471 (Repair Org. P.O. I	Vo., etc.)	
Work Performed By: _FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp N							
10 C	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No. 33		
					Expiration Date	09/28/2011	
4. Identification of System: MAI	N, REHEAT, EXT	RACTION,	AND MISC	. DRAIN	S 1N22		
5. (a) Applicable Construction C	ode: <u>ASME Sectio</u> NAME/SECT	n III Class	s 1 DN/CLASS		,19 <u>74</u> Editi	on	
WINTER 19 75				5			
	·						
(b) Construction Code used f	or repairs, modifica	ations, or r	eplacemen	ts: <u>1974</u>	W 1975 Addenda	none Code Case(s)	
(c ) ASME Code Section XI ap						none	
	Section 1			Edi	ition Addenda	Code Case(s)	
(d) Applicable Edition of Sect		•	odification,	or Repla	cements:		
•	19 89 19 none Addenda none Code Case(s)  (e) Design Responsibilities FIRSTENERGY CORP.						
<ul><li>6. Identification of Components F</li></ul>			cement Cor	nponents			
<u> </u>		Nat		· · · · · · · · · · · · · · · · · · ·	Repair,	I ASME	
Name of Name of Component Manufacturer	Manufacturer Serial No.	Board No.	Other ID.	Year Built	Replacement, or Modification	Code Stamped	
PIPING PULLMAN SYSTEM POWER	1N22	N/A	N/A	1985	Replacement	YES	
				٠			
					:		
7. Description of Work: REPLACED SNUBBER S/N 22908 WITH SNUBBER S/N 24405.							
PLANT ID 1N22H0148.							
8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-							
•	st Temperature N		legrees F	_	Case(s) N/A	• .	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
<u> </u>
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,
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 or the front of this form.
CERTIFICATE OF COMPLIANCE  I, Michael J Tepsick, 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 11
Date 27 April , 20 09 Signed FENOC-PNPP May 20 00 OC Tech.  (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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on Apr. 28 20 04 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 418, 20 og Signed Thereof Japa Commissions NB 9330 "N" "I" "A" Ohlo Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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INZ7-049

NIS-2/NR-1 OWNE						ENTS		
As re PNPP No. 9308 Rev. 9/11/00	quired by the Provi	isions of tr	e ASME Co	ode Secti	on XI	NQI-1741		
1. Owner: FIRS	TENERGY CORP.				Date 5-26	i-9		
l '	10 Center Road, Perry, Ohio 44081					1		
	Perry Nuclear Power Plant (PNPP)							
10 Center F	10 Center Road, Perry, Ohio 44081					lo., etc.)		
0.14   0.5   10.5	umayı ı		, av IDD		T O-d- O	.104		
Work Performed By: <u>FIRSTE</u> 10.00	NERGY Nuclear Ope enter Road, Perry,			PNPP Type Code Symbol Stamp NR  Authorization No33				
	enter Noad, Peny,	O1110 4400	<u></u>		Expiration Date (			
Identification of System: <u>FEE</u>	EDWATER 1N07		•					
5. (a) Applicable Construction Co	ode: <u>ASME Section</u> NAME/SECT	n III Class ION/DIVISIO	2 N/CLASS		19 <u>74</u> Editio	. תכ		
<u>WINTER</u> 19 <u>75</u>	Addenda Code	Case(s) <u>N</u>	272, 1644-5	5, N413, I	N242, N282			
(b) Construction Code used for	or repairs, modifica	itions, or r	eplacement			none		
(c.) ASMF Code Section XI ac	oplicable for Inservi	ce Inspec	tion:	1989	ition Addenda none	Code Case(s)		
Edition Addenda Code Case(s)								
	(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:							
	19 <u>89 19 none</u> Addenda <u>none</u> Code Case(s)							
<ul><li>(e) Design Responsibilities <u>F</u></li><li>6. Identification of Components F</li></ul>			ement Con	nonente	•• •			
<del></del>	T	Nat.	<del></del>		Repair,	ASME		
Name of . Name of . Component Manufacturer	Manufacturer Serial No.	Board No.	Other ID.	Year Built	Replacement, or Modification	Code Stamped		
PIPING PULLMAN SYSTEM POWER	1N27	89	1N27F828	1985	Replacement	YES		
·	·							
				•				
7. Description of Work: ADD SMALL BORE VENT ISOLATION VALVE AND ASSOCIATED TUBING AND								
SUPPORTS PER ECP-04-0091. SEE REMARKS SECTION FOR PARTS USED (GREATER THEN 1").								
•	8. Test Conducted: Hydrostatic- Pheumatic- Nominal Operating Pressure- Other-							
Pressure 46 psi. Te	st Temperature 78	3	legrees F	Code	Case(s) N-416-3			

CK) QI-1741
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1N27-050

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  As required by the Provisions of the ASME Code Section XI								
PNPP No. 9308		quired by the Flov	ISIONS OF th				NQI-1741	
1. Owner: _	1. Owner: FIRSTENERGY CORP.						9-9	
_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1	
2. Plant: _	Plant: Perry Nuclear Power Plant (PNPP)					Unit 1	<del></del>	
-	10 Center Road, Perry, Ohio 44081						lo., etc.)	
		-				, , ,	,,,,,	
3. Work Perf	ormed By: FIRSTE	•				Type Code Symbol Stamp NR		
	10 Ce	enter Road, Perry,	Ohio 4408	<u>:1</u>		Authorization No. 33		
				*		Expiration Date (	09/28/2011	
4. Identification	on of System: <u>FEE</u>	DWATER 1N27	· · · · · ·			•		
5. (a) Applica	ble Construction Co	ode: ASME Section	III Class	1 N/CLASS	· ·	19 <u>74</u> Editi	on	
WINTE	ER 19 75 /				5. N413. I	N242, N282		
		·						
(b) Constr	ruction Code used fo	or repairs, modifica	itions, or r	eplacement			+	
/- \ ACN4"	0-4- 0# VI	alianhla éar lacand	i 1	tian.		tion Addenda	Code Case(s)	
(C) ASME	Code Section XI ap	oplicable for triservi	ice mspec	uon.	1989 Edi	none tion Addenda	none Code Case(s)	
(d) Applica	able Edition of Secti	on XI Utilized for R	tepairs, Mo	odification,	or Replac	ements:		
19 <u>89</u>	19 <u>none</u>	Addenda <u>non</u>	e Case(s)	•	•			
(e) Design	Responsibilities <u>F</u>			····	<del></del>	· •		
6. Identification	on of Components F	Repaired, Modified,	or Replac	ement Con	nponents	r *		
Name of	Name of	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code	
Component	Manufacturer	Sejiai No.	No.	ID.	Dunt	or Modification	Stamped	
PIPING SYSTEM	PULLMAN POWER	1N27	89	1N27 F559A	1985	Replacement	YES	
				· .				
	<del> </del>							
7. Description of Work: REMOVED VALVE TEST FITTING FOR INTERNAL INSPECTION AND INSTALLED								
	NEW FITTING HT # 14512. USED FILLER METAL HT # 159443.  3. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐							
	*	st Temperature 14		•	_	Case(s) <u>N-416-3</u>	C1- L.J	
•								

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
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>Michael J Tepsick</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. 33 to use the "NR stamp expires 28 Sept. 20 11
Date 19 June , 20 09 Signed FENOC-PNPP Man Service QC Tech.  (name of repair organization) (authorized representative) (little)
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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on June 75, 20 09 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 25. 20 09 Signed Themar Lange Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (Include endorsements), and jurisdiction, and no.)

1911-011

NIS-2	NR-1 OWN! As re	ER'S REPOR quired by the Prov			-		ENTS
PNPP No. 9308 I		·. ·					NQI-1741
1. Owner: _	FIRS	TENERGY CORP.	<u>-</u>			Date4-2	7-9
	10 Center Road, Perry, Ohio 44081				Sheet 1 of	1	
2. Plant:	Perry Nuc	lear Power Plant (	PNPP)			Unit 1	
_	10 Center I	Road, Perry, Ohio	44081			200323587 (Repair Org. P.O. No., etc.)	
						(Hopan Org. 7:0.7	10., 010.,
<ol><li>Work Perfo</li></ol>	rmed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP	) :	Type Code Symbol Stamp NF	
	10 C	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	o. <u>33</u>
	•	• .				Expiration Date	09/28/2011
1. Identificatio	n of System: CO	NDENSATE TRAN	SFER AN	D STORAG	E 1P11		
5. (a) Applical	ole Construction C	ode: ASME Sectio	n III Class	s 2		,1974 Editi	ion
. ()		NAME/SECT	ION/DIVISIO	N/CLASS			
WINTE	R 19 <u>75 ·</u>	Addenda Code	Case(s) <u>N</u>	1272	•		
	·						
(b) Constru	uction Code used f	or repairs, modifica	ations, or i	eplacemen		W 1975 Addenda	none Code Case(s
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Insped	tion:	1989	none	none
(-1) A 1'	Edition Addenda Code Case(s)  (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:						
• • • • •	Die Edition of Sect		•	oomcation,	or Repla	cements;	
		Cod	e Case(s) ·				
	Responsibilities <u>F</u>					•	± ,,,
. Identification	n of Components F	Repaired, Modified	·	cement Cor	nponents	,	<del>7</del> 1
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1-P11-37	N/A	N/A	1983	Replacement	YES
							<del>  </del>
							-
Description	of Work: INSTALL	ED 12 NEW STU	OS 7/8"-9 I	-T# 55051	AND 24 I	H NUTS 7/8"-9 F	HT# 2C27.
PLANT ID	1P11-F0060.					<del></del>	<del> </del>
Test Conduc	cted: Hydrostatio	- 🗌 Pneumat	ic- 🔲 1	Nominal Op	erating P	ressure- Oth	er- 🗌
Pressure N	<u>'A</u> psi Te	st Temperature <u>N</u>	<u>'A</u> c	legrees F	Code	Case(s) N/A	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
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.
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National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11
Date 27 April , 20 09 Signed FENOC-PNPP Must See QC Tech.  (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 CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on Aor 127, 20 09 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 ocloss of any kind arising from or connected with this inspection.  Date 4/2-7, 20 99 Signed Commissions NB 9330 "N" "!" "A" Ohio Comm.  (Inspection) (National Board (include endorsements), and jurisdiction, and no.)