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August 7, 2007 PY-CEI/NRR-3050L

ATTN: Document Control Desk United States Nuclear Regulatory Commission Washington, D.C. 20555

Perry Nuclear Power Plant Docket Number 50-440 License Number NPF-58

Subject: Perry Nuclear Power Plant Eleventh Inservice Inspection Summary Report

Ladies and Gentlemen:

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 Eleventh Inservice Inspection Summary Report (Form NIS-1) is enclosed. This report documents the inservice examination activities conducted from return to commercial operation from the tenth refueling outage until completion of the eleventh refueling outage.

There are no regulatory commitments contained in this letter or its enclosure. If there are any questions or if additional information is required, please contact Mr. Thomas A. Lentz, Manager - FENOC Fleet Licensing, at (330) 761-6071.

Sincerely,

Enclosure: FirstEnergy Nuclear Operating Company Perry Nuclear Power Plant

Eleventh Inservice Inspection Summary Report

cc: NRC Region III Administrator NRC Resident Inspector

Bay 5. Alle

NRR Project Manager

Authorized Nuclear Inservice Inspector

Ohio Department of Commerce, Boiler Inspection Section

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

FORM NIS-1 OWNERS REPORT FOR INSERVICE INSPECTIONS

As required by the provisions of the ASME Code Rules

1. Owner	FirstEnergy N	uclear Generation	Corp. & Ohio Edison Co., 76 South Main Street	t, Akron, OH 44308
			(Name and Address of Owner)	
2. Plant		Perry Nuclea	r Power Plant, 10 Center Road, Perry, OH 4408	31
			(Name and Address of Plant)	
3. Plant Unit	1	4. Ow	ner 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	its Inspected	(only the systems	with Class 1 and 2 components are listed in follo	owing table)

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	ICH	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	1E31-0068-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 $8\frac{1}{2}$ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8.	Examination Dates _	5/7/05	to _	5/13/07			
9.	Inspection Period Ide	ntification:	Third P	eriod			
10.	Inspection Interval Id	entification:	Second				
11.	Applicable Edition of	Section XI		1989	_ Addenda	None	_
12.	Date/Revision of Insp	ection Plan:	Rev 11	, PNPP Inser	vice Examina	tion Program Plan, d	lated 2/22/07
13.	Abstract of Examination work required for the			list of exam	inations and t	ests and a statement	concerning status of
14.	See attached summary Abstract of Results of	-		ts.			
15.	See attached summary Abstract of Corrective	=	0-0011*				
	See attached summary	report P0059	-0011*				
	* Report is 180 two-s	sided pages in	length.				
	We certify that a) the equired by the ASME C tion XI.						neet the Inspection Plan Tthe ASME Code,
Cei	rtificate of Authorization	on No. (if appl	icable)	N/A		xpiration Date	N/A
Dat	te <u>7/17/07</u>	Signed	i <u>FE</u>	NGENCO & Owner	OE By	Richard M. Fil	is There
		CERTI	FICATE	OF INSER	VICE INSPI	ECTION	
and		f Ohio hav	e inspect /07	ed the compo	and employe ments describe ate that to the l	ed by <u>Hartford Ste</u> ed in this Owner's Re best of my knowledge	eam Boiler of port during the period and belief the Owner
insp con Insp	performed examination pection plan and as requestion plan and as requestion by signing this certification the examination pector nor his employer sing from or connected to	fired by the AS ficate neither ons and correct shall be liable	ME Code the Inspet tive mea in any m	e, Section XI. ector nor his sures describ	employer ma	akes any warranty, e vner's Report. Fur	expressed or implied, thermore, neither the
_	Thomas Lic Inspector's Sig	Days gnature	Comi	missions	NB9330 "N", National Board	, "I", & "A", Ohio Co d, State, Province, and	ommission d Endorsements
Dat	e 7/18/07						

1. Owner					
_			(Name and Address of Owner)		
2. Plant		Perry Nuclear	Power Plant, 10 Center Road, Perry, OH 440	081	
			(Name and Address of Plant)		
3. Plant Uni	it1	4. Own	er Certificate of Authorization (if required)	N/A	
5. Commerc	cial Service Date	11/18/87	6. National Board Number for Unit	N/A	
7. Compone	ents Inspected (only the systems v	with Class 1 and 2 components are listed in foll	owing 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	IM14	113
Drywell Vacuum Relief System	Pullman Power Products	1M16	1M16	115
Containment Vacuum Relief System	Pullman Power Products	IM17	IM17	87
Combustible Gas Control System	Pullman Power Products	1M51	1M51	106
Main Steam System	Pullman Power Products	INII	INII	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 Generation Corp. & Ohio Edison Co.

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:

RFO11

DOCUMENT COMPLETED:

July 17, 2007

ABSTRACT

Perry Nuclear Power Plant (PNPP) Unit #1 was shutdown for approximately eight weeks to refuel the reactor vessel [Refueling Outage 11(RFO11)] and perform plant maintenance commencing April 2, 2007. 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 American Society of Mechanical Engineers (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 11.

Automated and manual ultrasonic examinations were performed on the lower course, and one upper course, reactor pressure vessel dissimilar metal nozzle to safe-end welds (previously Category B-F, now Risk Informed R-A). These included one of the two Recirculation outlet (N1) nozzles, the 10 recirculation inlet (N2) nozzles, the two Jet Pump Instrumentation (N9) nozzles, and Feedwater nozzle N4E. These examinations met the new ASME Section XI, Appendix VIII, Supplement 10 requirements. No relevant indications were found in the lower course welds and pre-existing flaws in the upper course N4E weld were found to be unchanged.

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 Inservice Inspection (ISI), which is documented in Relief Request IR-049.

In-vessel examinations consisted of the required Code visual examinations along with augmented visual examinations of numerous vessel interior components. The augmented visual examinations were primarily conducted in accordance with the Boiling Water Reactor Vessel and Internals Project (BWRVIP) inspection guidelines. Follow-up examinations of the minor jet pump wedge wear that was found on jet pump 15 in RFO10, and which was evaluated as acceptable for operation through RFO11, were performed and the wear was found to be unchanged (documented in Condition Reports (CRs) 05-02242 and 07-18578). Follow-up examinations were also performed on the vessel interior crud deposits found during RFO9. The crud deposits were found to be essentially unchanged (documented in CRs 03-01995 & 05-01928). Finally, follow-up examinations were performed on the SHSAM bolts for the anti-rotation pin wear found in RFO9 and the wear was found to be acceptable for another cycle of operation (documented in CRs 03-02831, 05-01794 and 07-18329).

Other than described above, there were no reportable indications.

RFO11 was the first refueling outage of the third Inspection Period within Perry's second 10-Year Inservice Inspection Interval. With the completion of the Cycle 11 and RFO11 examinations, approximately 55% 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, and all required corrective actions and/or evaluations were completed.

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1.0 INTRODUCTION

The information provided herein is supplied to document compliance with ASME Boiler and Pressure Vessel (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 RFO10 through the completion of RFO11.

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 RFO11 from April 2, 2007 to May 13, 2007. The plant returned to commercial operation on May 13, 2007, at 04:31. 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-416-2, N-457, N-460, N-461-1, N-491-2, N-498-1, N-509, N-522, N-524, N-526, N-546, N-552, N-566-2, N-568, N-578 as applied in PNPP's Risk-Informed Class 1 Piping program, N-586, N-599, N-601, N-613-1, N-623, N-624, N-647, N-648-1, N-652, N-663, N-664, and N-695.

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 11 operations and RFO11. 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 nondestructive 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 11 operations and RFO11:

ISI NDE PERSONNEL

Anderson, Edward Andrie, Bryan Balcom, Allen	NA	N170		
Andrie, Bryan		NA	NA	III++
	NA	NA	NA	II+
	NA	NA	NA	II++
Blood, Eric	NA	NA	NA	II+
Boyd, Rodney	NA	NA	NA	II++
Boyette, Nathan	NA	NA	NA	II++
Brees, Michael	NA	NA	NA	II+
Buck, George	III**	III	III	III
Catron, Earnest	III**	II	II	NA
Clare, John	NA	NA	NA	11+
Cox, Stephen	II**	NA	NA	II
Crane, Martin	II**	NA	NA	NA
Drazich, Rodney	NA	NA	NA	III++
Dummer, Brad	111**	NA	NA	NA
Fish, Kevin	II**	NA	NA	NA
Gauthier, Clint	II**	NA	NA	NA
Gaskins, Vernard	NA	NA	NA	II
Gilliard, John	III**	NA	NA	NA
Ginder, Todd	II**	NA	NA	II
Green, Jack	NA	NA	NA	II+++
Green, Jerry	NA	NA	NA	III++
Guillote, Jonathan	11**	NA	NA	NA
Hancock, David	II**	NA	NA	II
Holmes, George	NA NA	NA	NA	II++
Henry, Douglas	NA	NA	NA	III++
Horn, John	NA	NA	NA	II++
Hurlburt, Vivus	NA	NA	NA	II++
Jenniges, Michael	NA	NA	NA	II
Joffe, Christopher	NA	NA	NA	11++
Johns, Shelvie	NA	NA	NA	II+
Jopko, Steve	NA	NA	NA	II
Kee, Jon	NA	NA	NA	II++
Kirkendall, Dennis	NA	NA	NA	II++
Lesnjak, Damijan	NA	II	II	NA
Lynch, Norbon	NA	NA	NA.	II+
Matthys, Russell	NA	NA	NA	II
Martinez, William	NA	NA	NA	II++
McClure, Matthew	NA	NA	NA	II+
Messenger, John	NA	NA	NA	III
Montgomery, Joseph	11**	NA	NA	NA
Munson, Dewey	III**	III	III	NA
Musgrove, Floyd	NA	NA	NA	II+++
Owens, Johnny	NA	NA	NA	II+
Patterson, John	NA	NA	NA	II+
Pelton, Corey	NA	NA	NA	II++
Phelps, Antwonette	NA	NA	NA	II+
Rachal, Andre	11**	NA	NA	NA
Richardt, Joseph	NA	NA	NA	II+
Schroeder, Daniel	NA	NA	NA	II++
Shearer, Levi	NA	NA	NA	II
Sipple, Bruce	NA	NA	NA	1.1+++
Snyder, Steve	II**	II	II	II
Steinbauer, Troy	NA	NA	NA	II**
	NA	NA	NA	III

ISI NDE PERSONNEL CONT.

Name	UT	PT	MT	VT
Thomas, Dave	NA	NA	NA	III++
Todd, Eugene	NA	NA	NA	II+
VanHecke, Charles	II**	NA	NA	NA
Walters, Donald	III**	NA	NA	NA
Warren, Jason	NA	NA	NA	II+
Wolf, Ronald	NA	NA	NA	II+
Williams, Larry	NA	NA	NA	II+
Winney, Ryan	NA	NA	NA	II++
Wirtz, Charles	NA	II	II	III

- + Limited to VT-2 only ++ Limited to in-vessel VT-1 and VT-3 examinations only
- +++ Limited to VT-3 only
- ** PDI qualified personnel for manual and/or automated UT

5.2 Equipment and Materials

The equipment and materials used during the performance of the nondestructive 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 11 operations and RFO11:

THERMOMETERS

Manufacturer	Model No.	PNPP M&TE No.		
OMEGA	450 Digital	L70Q0463J		
OMEGA	450 Digital	L80Z0103E		
OMEGA	450 Digital	L80Z0103F		
OMEGA	450 Digital	L80Z0103K		
OMEGA	450 Digital	L80Z0103P		
OMEGA	450 Digital	L80Z0103R		

MAGNETIC PARTICLE EQUIPMENT

Manufacturer	Model No.	PNPP M&TE No.
Parker	B-300 AC Yoke	PAR-ACMT-049
Parker	B-300 AC Yoke	PAR-ACMT-058

MAGNETIC PARTICLE MATERIALS

ſ	Manufacturer	Туре	Batch No.	
Ī	Magnaflux	8A Red Powder	94B029	

DYE PENETRANT MATERIALS

Γ	Cleaner		Penet	rant	Developer		
Г	SKC-S	00K03K	SKL-SP1	05A06K	SKD-S2	06C05K	

ULTRASONIC FLAW DETECTORS

Manufacturer	Model	Serial No.
Stavely	SONIC-136P	136-786J
Panametrics	Epoch 4	031536006
Panametrics	Epoch 4	031539806
Panametrics	Epoch 4	031540506
Panametrics	Epoch 4	031573111
Panametrics	Epoch 4	031573311
Panametrics	Epoch 4	031574712
Krautkramer	USK-7	31459-2830
General Electric*	GERIS-2000	System #3
Zetec+	MICROTOMO	166931

- * Used for RPV Nozzle to Shell Weld and Nozzle Inner Radii exams.
- + Used for Nozzle to Safe-End dissimilar metal weld exams.

ULTRASONIC COUPLANTS

Manufacturer	Type	Batch No.
Sonotech	Ultragel II	95325
Sonotech	Ultragel II	98325
Sonotech	Ultragel II	99125

TRANSDUCERS USED FOR MANUAL EXAMS

Manuf.	Туре	Freq.	Angle	Size	Ser No.
KBA	Comp-G	2.25 MHz	45°	.25" Dia.	003PBN
KBA	Gamma	5.0 MHz	0°	.25″ Dia.	003V0C
KBA	Comp-G	2.25 MHz	45°&70°	.5" Dia.	00DTX6*
KBA	Comp-G	5.0 MHz	45°	.25" Dia.	00XB3P
KBA	Comp-G	5.0 MHz	45°&70°	.25" Dia.	00XKHL
KBA	Comp-G	2.25 MHz	45°	.375″ Dia.	010DY4
KBA	Comp-G	2.25 MHz	45°&60°	.375″ Dia.	010DY6
KBA	Comp-G	2.25 MHz	45°	.375″ Dia.	010HW1
KBA	Comp-G	2.25 MHz	45°	.5″ Dia.	010HXP
KBA	Comp-G	2.25 MHz	45° & 70°	.25" Dia	01190Н
KBA	Comp-G	5.0 MHz	45°	.25" Dia.	01.48D0
KBA	Comp-G	5.0 MHz	45°	.375″ Dia.	01C7C9
KBA	Comp-G	5.0 MHz	45°	.5″ Dia.	01CWDY
KBA	Comp-G	2.25 MHz	45°	.375″ Dia.	01CX29
KBA	Comp-G	2.25 MHz	45°	.5″ Dia.	01CYT4
KBA	Comp-G	2.25 MHz	25°	.5" Dia.	01D65R
KBA	MSEB4E	4.0 MHz	0°	4 x 10 mm	06438
KBA	MSWQC	2.25 MHz	45°&70°	.25" Dia.	24711*
KBA	Gamma	2.25 MHz	0°	1.0" Dia.	G14209SP
КВА	Gamma	5.0 MHz	0°	.25″ Dia.	J29329
Panametrics	A111S	10.0 MHz	0°	.5" Dia.	212161*
Panametrics	A111S	10.0 MHz	0°	.5″ Dia.	268287

 * Denotes Perry transducers; all others supplied by GE

GERIS (Auto) & MANUAL RPV EXAM TRANSDUCERS

Manuf.	Type	Freq.	Angle	Size	Ser No.
KBA	SWS	1.0 MHz	70°	.5" x 1"	010HX0*
KBA	SWS	1.0 MHz	70°	.5" x 1"	010HX2*
KBA	SWS	1.0 MHz	70°	.5" x 1"	010HX4*
KBA	SWS	1.0 MHz	45°	.5" x 1"	010HX6*
KBA	SWS	1.0 MHz	60°	.5" x 1"	010нх9*
KBA	SWS	1.0 MHz	45°	.5" x 1"	011784*
KBA	SWS	1.0 MHz	45°	.5" x 1"	011785*
RTD	L 2-St	2.0 MHz	60°L	(30×25) mm	04-12
RTD	T 1-St	1.0 MHz	68°	(32x16) mm	04-22
RTD	T 1-St	1.0 MHz	68°	(32x16) mm	04-23
RTD	T 1-St	1.0 MHz	45°	(32x22) mm	05-1484
RTD	T 1-St	1.0 MHz	45°	(32×22) mm	05-1485
RTD	L 2,25	2.25 MHz	0°	1" Dia.	05-1517
R'I'D	T 1-St	1.0 MHz	45°	(32x22) mm	05-164
RTD	T 1-St	1.0 MHz	65°	(32×17) mm	05-168
RTD	T 1-St	1.0 MHz	65°	(32x17) mm	05-169
RTD	TRL 2-St	2.0 MHz	70°L	2(12x25)mm	05-170
RTD	T 1-St	1.0 MHz	45°	(32x22) mm	06-273
RTD	T 1-St	1.0 MHz	45°	(32x22) mm	06-275
RTD	TRL 2-St	2.0 MHz	70°L	2(12x25)mm	06-495
RTD	TRL 2-St	2.0 MHz	70°L	2(12x25)mm	97-676
SIGMA	SDC3	3.0 MHz	60°L	2(1.1"x.62")	22BC-03007*
SIGMA	SDC3	3.0 MHz	60°L	2(1.1"x.62")	22BC-03008*
Harrisonic	Spectrum	10.0 MHz	0°	.5" Dia.	8158
Harrisonic	Spectrum	10.0 MHz	0°	.5" Dia.	8270*

 $^{^{\}star}$ Denotes used for manual exams; all other used for GERIS System.

SMART (Auto) & MANUAL SAFE-END WELD TRANSDUCERS

Manuf.	Туре	Freq.	Angle	Size	Ser No.
KBA	Comp-G	2.25 MHz	45°	.25" Dia.	OOMMOD
RTD	TRL2-Aust	2.0 MHz	60°L	2(10x18)mm	00-343
RTD	TRL2-Aust	2.0 MHz	45°L	2(7x10)mm	03-177*
RTD	TRL2-Aust	2.0 MHz	60°L	2(7x10)mm	03-178*
RTD	TRL1-Aust	1.0 MHz	45°L	2(15x25)mm	03-682
RTD	TRL1-Aust	1.0 MHz	60°L	2(15x25)mm	03-683
RTD	TRL2-Aust	2.0 MHz	70°L	2(10x18)mm	04-307
RTD	TRL1-Aust	1.0 MHz	60°L	2(10x18)mm	04-317
RTD	TRL2-Aust	2.0 MHz	45°L	2(15x25)mm	04-318
RTD	TRL2-Aust	2.0 MHz	60°L	2(15x25)mm	04-323
RTD	TRL1.5-Aust	1.5 MHz	38°L	2(10x18)mm	05-1350*
RTD	L 2,25	2.25 MHz	0°	1" Dia.	05-1517
RTD	TRL1-Aust	1.0 MHz	45°L	2(10x18)mm	05-159

SMART (Auto) & MANUAL SAFE-END WELD TRANSDUCERS CONT.

Manuf.	Type	Freq.	Angle	Size	Ser No.
RTD	T1,5-Aust	1.5 MHz	45°	Ell(24x17)mm	06-505
RTD	T1,5-Aust	1.5 MHz	45°	Ell(24x17)mm	98-154
RTD	TRL2-Aust	2.0 MHz	45°L	2(10x18)mm	98-166

^{*} Denotes used for manual exams; all other used for SMART System.

6.0 CALIBRATION STANDARDS

Ultrasonic calibration standards used for ISI related work activities during Cycle 11 operations and RFO11 are as listed below:

C.Z	ALIBRATION STA	NDARD IDENTIFICATION	NUMBERS
PY-4-XX1-SS	PY-12-100-CS	PY-26-XX2-CS	PY-STUD-RR-3-CS
PY-6-80-CS	PY-16-100-CS	PY-123-1-RPV	PY-SE-BI-1
PY-6-120-CS	PY-18-40-CS	PY-124-1-RPV	PY-SE-BI-4
PY-6-XX1-CS-F	PY-18-STD-CS	PY-128-1-RPV	PY-SE-BI-5
PY-8-100-CS	PY-20-40-CS	PY-NUT-RPV-1-A	PY-VALVE-XX1-CS
PY-12-40-CS	PY-24-40-CS	PY-STUD-1-RPV-A	PY-VALVE-XX2-CS
PY-12-80-CS	PY-24-STD-CS	PY-STUD-MS-2.25-CS-1	CAL-STEP-151

7.0 PROCEDURES AND INSPECTION PLANS

The examination procedures and inspection plans used during Cycle 11 operations and RFO11 were as follows:

Number	Rev	Title
Perry NDE Proc	edures:	
NQI-0941	11	Liquid Penetrant Examination
NQI-0942	9	Magnetic Particle Examination
NQI-0944	9	Ultrasonic Examination (General Procedure)
NQI-1042	12	Visual Examination
Inspection Pla	ns used	with NQI-0944:
NDE-002	6	Ultrasonic Instrument Linearity Verification
NDE-008	10	Manual Ultrasonic Examination of Ferritic Piping Welds
NDE-012	4	Straight Beam Ultrasonic Examination of Bolts and Studs
NDE-018	9	Procedure for Ultrasonic Examination of Stainless Steel (Austenitic) Piping Welds for Intergranular Stress Corrosion Cracking
NDE-019	4	Ultrasonic Examination of Flued Head Penetration Attachment Welds
NDE-020	2	Ultrasonic Examination of Reactor Pressure Vessel (RPV) Nut Threads and Flange Threads
NDE-030	2	Manual Ultrasonic Examination of Valve Body Welds
NDE-035	0	Ultrasonic Examination of Piping Base Metal adjacent to Socket Welds

PROCEDURES AND INSPECTION PLANS CONT.

Number	Rev	Title
General Electr	ic NDE	Procedures:
GE-PDI-UT-10	Rev. 2	PDI Generic Procedure for The Ultrasonic Examination of Dissimilar Metal Welds
GE-UT-209	Ver. 18	Procedure for Automated Ultrasonic Examination of Dissimilar Metal Welds, and Nozzle to Safe-End Welds
GE-UT-300	Ver. 10	Procedure for Manual Examination of Reactor Vessel assembly Welds in Accordance with PDI With PDQS
GE-UT-304	Ver. 8	Procedure for Manual Ultrasonic Planar Flaw Sizing in Vessel Materials With PDQS
GE-UT-309	Ver. 10	Procedure for Manual Ultrasonic Planar Flaw Sizing of Nozzle Inner Radius and Bore Regions With PDQS
GE-UT-311	Ver. 15	Procedure for Manual Ultrasonic Examination of Nozzle Inner Radius, Bore and Selected Nozzle to Vessel Regions With PDQS
GE-UT-705	Ver. 5	Procedure for The Examination of Reactor Pressure Vessel Nozzle Inner Radius and Nozzle To Vessel Welds With The GERIS 2000 OD IN Accordance With Appendix VIII
GE-VT-206	Ver. 8	Procedure for Invessel Visual Inspection (IVVI of BWR 6 RPV Internals

8.0 RELIEF REQUESTS

Due to geometric, metallurgical, and physical limitations, some of the items scheduled for examination during RFO11 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 Nuclear Regulatory Commission (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

RELIEF REQUESTS CONTINUED

RR NO/REV	SYSTEM	TYPE RELIEF	CATEG	ITEM NO
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	В-О	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-029 R-1	Reactor Recirculation	Alternate Weld Selection	B-J	B9.11
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
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

RELIEF REQUESTS CONTINUED

RR NO/REV	SYSTEM	TYPE RELIEF	CATEG	ITEM NO
IR-040 R-0	Containment	Alternate UT thickness	N/A	и/А
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-0	Reactor Water Cleanup	Alternate Categorization	B-M-1	B12.30
IR-044 R-0	Reactor Vessel	Use of Code Case N-627	B-G-1	В6.10
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	В-А	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
PT-001 R-1	Various non-isolable (from the RPV Boundary) Class 2 Components	Alternate System and Inservice Tests	С-Н	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-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 NRC 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.
- For those Cycle 11 and RFO11 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 RFO11 to facilitate the examinations, or to account for unforeseen physical or schedule interferences, or radiological conditions. These changes differ from the schedule in Revision 11 of PNPP's Inservice Examination Program (ISEP).

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

MARK NO.	DESCRIPTION AND REASON FOR CHANGE
1B13-38/03-FW	Under Order 200173592, Control Rod Drive 38/03 housing to flange weld was scheduled for a penetrant (PT) examination. However, it was found that there were permanent braided lines lying across the weld. CRD flange weld 1B13-54/15-FW was substituted in its place as it had no obstructions. Document Change Request Notification 600379351 was generated for revision of the ISEP to reflect the substitution.
1E12-H0675	Under Order 200173635, variable spring support 1E12-H0675 was scheduled for a VT-3 examination. Previous history and the ISI database did not indicate that scaffolding was necessary for this support as it's pipe attachment is located just above the Drywell 630 platform. However, it was found that the majority of the support assembly is below the 630 platform grating and could not be examined without scaffolding. As such, variable spring support 1E12-H0661, which was not scheduled and which did not require any scaffolding, was substituted in its place. Document Change Request Notification 600379351 was generated for revision of the ISEP to reflect the substitution.

10.0 EXAMINATION SUMMARY RESULTS

RFO11 was the fifth refueling outage of Perry's second 10-Year Inservice Inspection Interval and it was the first of two outages in the third inspection period. With the completion of the Cycle 11 and RFO11 examinations, approximately 50% of the examinations scheduled for the third period are complete. The remaining third period examinations will be completed by the end of RFO12.

Cycle 11 and RFO11 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.

Appendix "A" is a computer-generated summary of the Cycle 11 and RFO11 examination results. Component identifications (Mark Nos.) and order of appearance may differ slightly from that listed in Revision 11 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 PNFP's last summary report:

NR-1/NIS-2 FORMS

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PAGE
	Danatan Danas	ure Vessel (1B13) Cycle 11 & RF011 Reports	<u>. </u>	l
1B13-052	1B13-D0008	Replaced 14 CRDMs and 8 capscrews each at locations 22/27, 46/27, 50/19, 42/15,	1	49
		34/47, 42/51, 50/23, 46/15, 42/27, 46/43, 54/23, 42/39, 10/35, 50/31; and also replaced 8 capscrews each on		
		existing CRDMs located at 42/31, 50/27, 14/19, and 26/35.		
	Main Steam	(1B21) System Cycle 11 & RFO11 Reports:		l
1B21-366	1B21-G7091	Replaced E-Systems hydraulic snubber	1 1	80
	1521 07091	with like snubber		
1B21-367	1B21-F0032A	Removed and replaced 1-3/4" inch welded	1	81
1B21-368	1B21-F0032B 1H22-H2744	test connections for inspection Replaced Lisega hydraulic snubber with	1 -	84
1821-368	11122-112/44	like snubber	1	04
1B21-369	1B21-H0445	Replaced Lisega hydraulic snubber with like snubber	1	85
1B21-370	1B21-H0449	Replaced Lisega hydraulic snubber with like snubber	1	86
1B21-371	1В21-Н0450	Replaced Lisega hydraulic snubber with like snubber	1	87
1B21-372	1B21-H0471	Replaced Lisega hydraulic snubber with like snubber	1.	88
1B21-373	1B21-F041D	Replaced SRV with like SRV	1	89
1B21-374	1B21-F047H	Replaced SRV with like SRV	1	91
1B21-375	1B21-F047F	Replaced SRV with like SRV	1	93
1B21-376	1B21-F047B	Replaced SRV with like SRV	11	95
1B21-377	1B21-F047D	Replaced SRV with like SRV	1	97
1B21-378	1B21-F051B	Replaced SRV with like SRV	1	99
1B21-379	1B21-F041F	Replaced SRV with like SRV	1	101
1B21-380	1B21-F051D	Replaced SRV with like SRV	1	103
1B21-381	1B21-F041B	Replaced SRV with like SRV	1	105
1B21-382	1B21-F041K	Replaced SRV with like SRV	1	107
1B21-383	1B21-F028C	Replaced MSIV poppet with new poppet	1	109
	Reactor Recircu	lation (1B33) System Cycle 11 & RF011 Repor	ts:	L
1B33-127	1B33-G7064B	Replaced E-Systems hydraulic snubber with like snubber	1	112
1B33-128	1B33-G7066B	Replaced E-Systems hydraulic snubber with like snubber	1	114
1B33-129	1B33-G7065B	Replaced E-Systems hydraulic snubber with like snubber	1	116

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PAGE
	tandbu Liquid Co	Introl (061641) System Cycle 11 6 PF011 Pope		l
1C41-036	1C41-D0003	ntrol (0&1C41) System Cycle 11 & RF011 Report Replaced heater flange with like flange	2	118
1C41-037	1C41-F0004B	Replaced primer/trigger assembly of explosive SQUIB valve	1	119
1C41-038	1C41-F0029B	Replaced 1x2" relief valve with like valve	2	123
	Danidarah B			
1E12-293	1E12-C0003	emoval (1E12) System Cycle 11 & RFO11 Repor Replaced waterleg pump rotating element	2	125
1E12-293	1E12-C0003	of the pump with like element (casing unchanged)	2	123
1E12-294	1E12-H0066	Installed a new load stud	2	127
1E12-295	1Е12-Н5002	Replaced PSA mechanical snubber with like snubber	2	128
1E12-296	1н22-н0209	Replaced PSA mechanical snubber with like snubber	2	129
1E12-297	1E12-F063C	Replaced 8" check valve with like valve	2	131
1E12-298	1E12-F086	Replaced 6" check valve with like valve	2	133
1E12-299	1E12-F063A	Replaced 8" check valve with like valve	2	135
1E12-300	1E12-F063B	Replaced 8" check valve with like valve	2	137
1E12-301	1E12-F041A	Installed new disc in 12" testable check valve	2	139
1E12-302	1E12	Replaced 6" piping and tee downstream of 1E12-F018B due to FAC	1	141
1E12-303	1E12-F055B	Replaced 4x6 relief valve with like valve	2	142
	D	Communication Contract Contract II C DECIL Days	<u> </u>	i
1E21-039	1E21-C0002	Spray (1E21) System Cycle 11 & RF011 Repo	rts:	144
1E21-039	1621-00002	of the pump with like element (casing unchanged)		144
,,,		(1700) C (1701) D		L
		e Spray (1E22) System Cycle 11 & RF011 Repo		146
1E22-062	1E22-C0003	Replaced stuffing box and seal gland of Waterleg pump	2	146
1E22-063	1E22-C0003	Replaced waterleg pump with like pump	2	148
1E22-068	1E22-C0003	Replaced waterleg pump rotating element of the pump with like element (casing unchanged)	2	150
1E22-069	1E22-F0541B	Replaced 2-way air start valve with like valve	2	152
1E22-070	1E22-F0541A	Replaced 2-way air start valve with like valve	2	153
1E22-072	1E22-F0034	Replaced 2" globe valve with like valve	2	154
Reac		on Cooling (1E51) System Cycle 11 & RF011 F	Reports:	
1E51-139	1E51-F0011	Replaced 6" Duo check valve with like valve	2	156
1E51-140	1E51-D0002	Replaced rupture disc with like disc	2	158
1E51-141	1E51-H0073	Replaced Lisega hydraulic snubber with like snubber	1	159
1E51-142	1Е51-Н0074	Replaced Lisega hydraulic snubber with like snubber	1	160
1E51-143	1E51-H2078	Replaced Lisega hydraulic snubber with like snubber	2	161
1E51-144	1E51-F066	Replaced 6" check valve disc retainer assembly	1	162

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PAGE		
Reactor		Cooling (1E51) System Cycle 11 & RF011 Repo	,			
1E51-145	1E51-D0001	Replaced rupture disc with like disc	2	164		
1E51-146	1E51-C0003	Replaced waterleg pump with like pump	2	165		
	Combustible Gas (Control (1M51) System Cycle 11 & RF011 Repo	rts:			
1M51-028	1M51-F0010B	Replaced nuts on globe valve bonnet	2	166		
Main,		ion, and Misc. Drains (1N22) System Cycle 1 Reports:				
1N22-065	1B21-F0016	Replaced gate in 3" globe valve	1	167		
1N22-066	1B21-F0019	Replaced gate in 3" globe valve	1	169		
	Feedwater	(1N27) System Cycle 11 & RFO11 Reports:				
1N27-047	1N27-F0559B	Removed and reinstalled 1-3/4" test connection from 20" check valve	1	171		
1N27-048	1N27-F0559A	Removed and reinstalled 1-3/4" test connection from 20" check valve	1	173		
Conder	esta Transfer a	 nd Storage (1P11) System Cycle 11 and RFO11	Reports	<u>. </u>		
1P11-009	1P11-F0060	Replaced 12" globe valve with like valve	2	174		
1P11-010	1P11-F0545	Installed new wafer disc in 12" check valve	2	176		
			Ι			
		ooling (1P43) System Cycle 11 & RFO11 Repo				
1P43-018 1P43-F0355 Rebuilt 10" butterfly valve using new cap screws, studs, and shaft/disc assembly						
		(1254)	<u>L</u>	ļ		
		ion (1P54) System Cycle 11 & RF011 Reports:				
1P54-009	1P54-F1098	Replaced check valve with like valve	2	179		
	1		1			

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 11 & RFO11 EXAMINATION RESULTS SUMMARY"

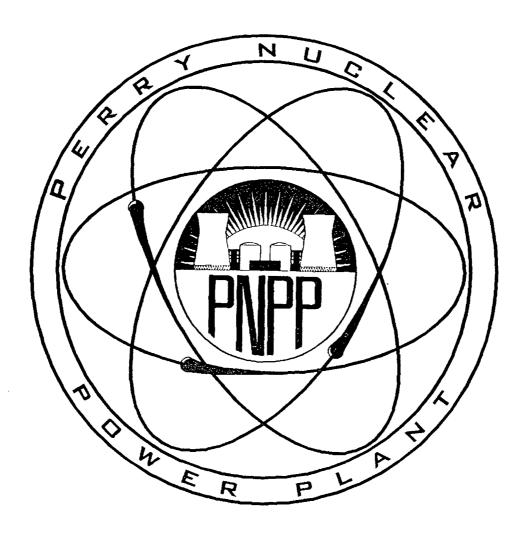
INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1



First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P0059-0011
Second Interval, Third Period, First Outage
(RFO11)
Cycle 11 and RFO11 Inservice Examinations

Prepared by: Call Date: 1/3/264
Reviewed by: Thomas Date: 7/18/2007

Authorized Nuclear Inservice Inspector

ID of Component Description of Co Size - Sched	omponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-0001 RPV VENT & HEAD FLANGE TO TEE 6"	305-631-108	R-A R2.11	UT	0944-07-E193	GEO	Root geometry and counterbore seen 360° intermittently.
1B13-0001 RPV VENT & HEAD FLANGE TO TEE 6"	SPRAY TEE, 305-631-108	R-A R2.11	UT	0944-07-E192	NRI	Zero degree exam performed as weld was being examined for the first time.
1B13-22/03-FW CRD HOUSING TO 6" N/A	FLANGE WELD 305-006-110	B-O B14.10	PT	0941-07A-007	SAT	85% coverage (IR-009). No indications.
1B13-22/59-HW CRD HOUSING TO 6" N/A	HOUSING WELD 305-006-110	B-O B14.10	PT	0941-07A-005	SAT	None.
1B13-38/59-HW CRD HOUSING TO		B-O B14.10	PT	0941-07A-004	SAT	None.
6" N/A 1B13-54/15-FW CRD HOUSING TO	305-006-110 FLANGE WELD	B-O B14.10	PT	0941-07A-006	SAT	85% coverage (IR-009). No indications.
6" N/A 1B13-AG	305-006-110	B-A	MT	0942-07A-015	SAT	None.
TOP HEAD TO TOP	9 HEAD FLANGE 305-006-103	B1.40				
1B13-AG TOP HEAD TO TOP N/A N/A	P HEAD FLANGE 305-006-103	B-A B1.40	UT	1Q800-07-002	NRI	83.7% coverage and no indications (IR-001).
1B13-DG BOTTOM CENTER PLATE, 270 AZ SID N/A N/A		B-A B1.22	UT	1Q800-07-005	SAT	29% coverage and no relevant indications (IR-001).
1B13-DH BOTTOM CENTER PLATE, 90 AZ SIDE N/A N/A		B-A B1.22	UT	1Q800-07-004	SAT	29% coverage and no relevant indications (IR-001).

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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
1B13-D TOP HI AZ N/A		ONAL WELD @ 195	B-A B1.22	UT	1Q800-07-001	SAT	None.
1B13-D)R	ONAL WELD @ 15 305-006-103	B-A B1.22	UT	1Q800-07-003	SAT	None.
1B13-F RPV C	-4-N LOSURE HE	AD NUT	B-G-1 B6.10	VT-1	1042-07-048	SAT	None.
5*	N/A	305-006-112					
1B13-F RPV C	-4-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E019	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-F RPV C	F4-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E020	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
1B13-F RPV SI AREA		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E067	NRI	Achieved approximately 92% coverage.
5"	N/A	305-006-112					
1B13-F RPV C		EAD WASHER	B-G-1 B6.50	VT-1	1042-07-038	SAT	None.
5"	N/A	305-006-112					
1B13-F RPV C	5-N LOSURE HE	AD NUT	B-G-1 B6.10	VT-1	1042-07-049	SAT	None.
5"	N/A	305-006-112					
1B13-F5-S RPV CLOSURE HEAD STUD		B-G-1 B6.20	UT	0944-07-E021	NRI	Zone 1 Exam.	
5"	N/A	305-006-112					
1B13-F RPV C	F5-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E022	NRI	Zone 2 Exam.
5*	N/A	305-006-112					

ASME
Category

		t Examined	ASME Category	_			
		omponent ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-F: RPV SH AREA		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E068	NRI	Achieved approximately 92% coverage.
5*	N/A	305-006-112					
1B13-F RPV CL		AD WASHER	B-G-1 B6.50	VT-1	1042-07-039	SAT	None.
5 "	N/A	305-006-112					
1B13-F RPV CL	6-N .OSURE HE	AD NUT	B-G-1 B6.10	VT-1	1042-07-050	SAT	None.
5"	N/A	305-006-112					
1B13-F RPV CL	6-S .OSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E023	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-F RPV CL	6-S -OSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E024	NRI	Zone 2 Exam.
5 "	N/A	305-006-112					
		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E069	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
1B13-F RPV Cl		EAD WASHER	B-G- 1 B6.50	VT-1	1042-07-040	SAT	None.
5"	N/A	305-006-112					
1B13-F RPV CI	7-N .OSURE HE	AD NUT	B-G-1 B6.10	VT-1	1042-07-051	SAT	None.
5 "	N/A	305-006-112					
1B13-F RPV CI	7-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E026	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
1B13-F RPV CI	7-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E025	NRI	Zone 1 Exam.
5"	N/A	305-006-112					

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Descri	iption of Co		ASME Category ASME Item No.	Exam Method	Every Deposit No.	Chahua	Remarks
		ISI Dwg. No.			Exam Report No.		
		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E070	NRI	Achieved approximately 92% coverage.
AREA 5*	N/A	305-006-112					
1B13-F RPV CI		AD WASHER	B-G-1 B6.50	VT-1	1042-07-041	SAT	None.
5*	N/A	305-006-112					
1B13-F RPV C	8-N LOSURE HE	AD NUT	B-G-1 B6.10	VT-1	1042-07-052	SAT	None.
5"	N/A	305-006-112					
1B13-F RPV CI	8-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E027	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-F RPV CI	8-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E028	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
1B13-F RPV SI AREA		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E071	NRI	Achieved approximately 92% coverage.
5"	N/A	305-006-112					
1B13-F RPV C		AD WASHER	B-G-1 B6.50	VT-1	1042-07-042	SAT	None.
5"	N/A	305-006-112					
1B13-F RPV C	9-N LOSURE HE	AD NUT	B-G-1 B6.10	VT-1	1042-07-053	SAT	None.
5"	N/A	305-006-112					
1B13-F RPV C	9-S LOSURE HE	AD STUD	B-G-1 B6.20	υτ	0944-07-E030	NRI	Zone 2 Exam.
5*	N/A	305-006-112					
	LOSURE HE		B-G-1 B6.20	UT	0944-07-E029	NRI	Zone 1 Exam.
5*	N/A	305-006-112					

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Desc	ription of	ent Examined Component - ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	SHELL, THE	READS IN FLANGE	B-G-1 B6.40	UT	0944-07-E072	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
1B13-I RPV (HEAD WASHER	B-G-1 86.50	VT-1	1042-07-043	SAT	None.
5*	N/A	305-006-112					
1B13- RPV (HEAD NUT	B-G-1 B6.10	VT-1	1042-07-072	SAT	None.
5 *	N/A	305-006-112					
1813- RPV (G1-S CLOSURE I	HEAD STUD	B-G-1 B6.20	UT	0944-07-E031	NRI	Zone 1 Exam.
5*	N/A	305-006-112					
1B13- RPV (HEAD STUD	B-G-1 86.20	UT	0944-07-E032	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
AREA	SHELL, TH	READS IN FLANGE	B-G-1 B6.40	UT	0944-07-E073	NRI	Achieved approximately 92% coverage.
5"	N/A	305-006-112					
1B13- RPV (HEAD WASHER	B-G-1 B6.50	VT-1	1042-07-058	SAT	None.
5"	N/A	305-006-112					
1B13- RPV (HEAD NUT	B-G-1 B6.10	VT-1	1042-07-073	SAT	None.
5"	N/A	305-006-112					
1B13-G2-S RPV CLOSURE HEAD STUD		B-G-1 B6.20	UT	0944-07-E034	NRI	Zone 2 Exam.	
5"	N/A	305-006-112					
1B13- RPV (HEAD STUD	B-G-1 B6.20	UT	0944-07-E033	NRI	Zone 1 Exam.
5 *	N/A	305-006-112					
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ID of C	Componen	t Examined	ASME Category				
	•	omponent ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E074	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
1B13-G RPV CI		EAD WASHER	B-G-1 B6.50	VT-1	1042-07-059	SAT	None.
5*	N/A	305-006-112					
1B13-0 RPV CI	33-N LOSURE HE	EAD NUT	B-G-1 B6.10	VT-1	1042-07-074	SAT	None.
5"	N/A	305-006-112					
1B13-0 RPV CI	63-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E035	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-G RPV CI	33-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E036	NRI	Zone 2 Exam.
5"	N/Ą	305-006-112					
1B13-0 RPV SI AREA		EADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E075	NRI	Achieved approximately 92% coverage.
5"	N/A	305-006-112					
1B13-0		EAD WASHER	B-G-1 B6.50	VT-1	1042-07-060	SAT	None.
5"	N/A	305-006-112					
1B13-0 RPV C	G4-N LOSURE HE	EAD NUT	B-G-1 B6.10	VT-1 .	1042-07-075	SAT	None.
5"	N/A	305-006-112					
1B13-0 RPV C	94-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E037	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-0 RPV C	34-S LOSURE HE	EAD STUD	B-G-1 B6.20	UΤ	0944-07-E038	NRI	Zone 2 Exam.
5 *	N/A	305-006-112					

ASME Category

Descr	iption of C	nt Examined Component ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-G4-T RPV SHELL, THREADS IN FLANGE			B-G-1 B6.40	UT	0944-07-E076	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
1B13-G4-W RPV CLOSURE HEAD WASHER			B-G-1 . B6.50	VT-1	1042-07-061	Sat	None.
5"	N/A	305-006-112					
1B13-0 RPV C	65-N LOSURE H	EAD NUT	B-G- 1 B6.10	VT-1	1042-07-076	Sat	None.
5"	N/A	305-006-112					
1B13-(RPV C	65-S LOSURE H	EAD STUD	B-G- 1 B6.20	UT	0944-07-E040	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
1B13-(RPV C	S5-S LOSURE H	EAD STUD	B-G-1 B6.20	UT	0944-07-E039	NRI	Zone 1 Exam.
5 *	N/A	305-006-112					
1B13-(RPV S AREA		EADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E077	NRI	Achieved approximately 92% coverage.
5"	N/A	305-006-112					
1B13-G5-W RPV CLOSURE HEAD WASHER		B-G-1 B6.50	VT-1	1042-07-062	SAT	None.	
5 "	N/A	305-006-112					
1B13-G6-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-077	SAT	None.	
5 "	N/A	305-006-112					
1B13-0 RPV C	66-S LOSURE H	EAD STUD	8-G-1 86.20	UT	0944-07-E041	NRI	Zone 1 Exam.
5 *	N/A	305-006-112					
1B13-G6-S RPV CLOSURE HEAD STUD			B-G-1 B6.20	UT	0944-07-E042	NRI	Zone 2 Exam.
5 "	N/A	305-006-112					

Descri	iption of Co	Examined Omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E078	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
	1B13-G6-W RPV CLOSURE HEAD WASHER			VT-1	1042-07-063	SAT	None.
5*	N/A	305-006-112					
	1B13-G7-N RPV CLOSURE HEAD NUT			VT-1	1042-07-078	SAT	None.
5*	N/A	305-006-112					
1B13-0 RPV C	97-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E044	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
1B13-0 RPV C	97-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E043	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-0 RPV SI AREA		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E079	NRI	Achieved approximately 92% coverage.
5"	N/A	305-006-112					
	1B13-G7-W RPV CLOSURE HEAD WASHER		B-G-1 B6.50	VT-1	1042-07-064	SAT	None.
5"	N/A	305-006-112					
	1B13-G8-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-079	SAT	None.
5"	N/A	305-006-112					
1B13-0 RPV C	38-S LOSURE HE	EAD STUD	8-G-1 B6.20	UT	0944-07-E045	NRI	Zone 1 Exam.
5*	N/A	305-006-112					
	1B13-G8-S RPV CLOSURE HEAD STUD			UT	0944-07-E046	NRI	Zone 2 Exam.
5*	N/A	305-006-112					

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ID of Component Examined		ASME Category					
	iption of Co Sched	omponent ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-0 RPV SI AREA		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E080	NRI	Achieved approximately 92% coverage.
5°	N/A	305-006-112					
1B13-G8-W RPV CLOSURE HEAD WASHER		B-G-1 86.50	VT-1	1042-07-065	SAT	None.	
5"	N/A	305-006-112					
1B13-G9-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-080	SAT	None.	
5 "	N/A	305-006-112					
1B13-(RPV C	39-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E047	NRI	Zone 1 Exam.
5 "	N/A	305-006-112					
IB13-(RPV C	39-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT"	0944-07-E048	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
		EADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E081	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
1B13-G9-W RPV CLOSURE HEAD WASHER		B-G-1 B6.50	VT-1	1042-07-066	Sat	None.	
5"	N/A	305-006-112					
1B13-H1-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-081	Sat	None.	
5"	N/A	305-006-112					
1B13-ł RPV C	H1-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E050	NRI	Zone 2 Exam.
5*	N/A	305-006-112					
1B13-I RPV C	H1-S LOSURE HE	EAD STUD	B-G-1 B6.20	UT	0944-07-E049	NRI	Zone 1 Exam.
5*	N/A	305-006-112					

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Size - Sched - ISI Dwg. No. Item No. Method Exam Report No. Status Remarks
AREA 5" N/A 305-006-112 ## B13-H1-W RPV CLOSURE HEAD WASHER B-G-1 VT-1 1042-07-067 Sat None. ## None.
B13-H2-N
RPV CLOSURE HEAD WASHER 1813-H2-N
1B13-H2-N RPV CLOSURE HEAD NUT 5° N/A 305-006-112 1B13-H2-S RPV CLOSURE HEAD STUD 5° N/A 305-006-112 1B13-H2-S RPV CLOSURE HEAD STUD 5° N/A 305-006-112 1B13-H2-S RPV CLOSURE HEAD STUD B-G-1 B6.20 B-G-1 UT 0944-07-E052 NRI Zone 2 Exam. 20 2 Exam.
RPV CLOSURE HEAD NUT
1B13-H2-S RPV CLOSURE HEAD STUD B-G-1 B6.20 B-G-1 B6.20 NRI Zone 2 Exam. NRI Zone 2 Exam. NRI Zone 1 Exam. 1B13-H2-S RPV CLOSURE HEAD STUD B-G-1 B6.20 NRI Zone 1 Exam. NRI Zone 1 Exam. NRI Zone 1 Exam. NRI Zone 1 Exam.
RPV CLOSURE HEAD STUD
1B13-H2-S RPV CLOSURE HEAD STUD B6.20 5" N/A 305-006-112 1B13-H2-T RPV SHELL, THREADS IN FLANGE AREA B-G-1 UT 0944-07-E083 NRI Achieved approximately 92% coverage. RPV SHELL, THREADS IN FLANGE AREA
RPV CLOSURE HEAD STUD B6.20 5" N/A 305-006-112 1B13-H2-T B-G-1 UT 0944-07-E083 NRI Achieved approximately 92% coverage. RPV SHELL, THREADS IN FLANGE B6.40 AREA
RPV CLOSURE HEAD STUD B6.20 5" N/A 305-006-112 1B13-H2-T B-G-1 UT 0944-07-E083 NRI Achieved approximately 92% coverage. RPV SHELL, THREADS IN FLANGE B6.40 AREA
1B13-H2-T B-G-1 UT 0944-07-E083 NRI Achieved approximately 92% coverage. RPV SHELL, THREADS IN FLANGE B6.40 AREA
RPV SHELL, THREADS IN FLANGE B6.40 AREA
1B13-H2-W B-G-1 VT-1 1042-07-068 SAT None. RPV CLOSURE HEAD WASHER B6.50
5" N/A 305-006-112
1B13-H3-N B-G-1 VT-1 1042-07-083 SAT None.
RPV CLOSURE HEAD NUT B6.10
5" N/A 305-006-112
1B13-H3-S B-G-1 UT 0944-07-E054 NRI Zone 2 Exam. RPV CLOSURE HEAD STUD B6.20
5" N/A 305-006-112
1B13-H3-S B-G-1 UT 0944-07-E053 NRI Zone 1 Exam. RPV CLOSURE HEAD STUD B6.20
5" N/A 305-006-112

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ID of Component Examined			ASME Category				
	-	omponent ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-H3-T RPV SHELL, THREADS IN FLANGE			B-G-1 B6.40	UT	0944-07-E084	NRI	Achieved approximately 92% coverage.
AREA 5*	N/A	305-006-112					
1B13-H3-W RPV CLOSURE HEAD WASHER			B-G-1 B6.50	VT-1	1042-07-069	SAT	None.
5*	N/A	305-006-112					
1B13-H4-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-084	SAT	None.	
5*	N/A	305-006-112					
1B13-H RPV Cl	4-S -OSURE HE	AD STUD	B-G-1 B6.20	UΤ	0944-07-E056	NRI	Zone 2 Exam.
5 *	N/A	305-006-112			• .		
1B13-H RPV Cl	4-S .OSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E055	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
		ADS IN FLANGE	B-G-1 B6.40	UT	0944-07-E085	NRI	Achieved approximately 92% coverage.
AREA 5"	N/A	305-006-112					
1B13-H4-W RPV CLOSURE HEAD WASHER		B-G-1 B6.50	VT-1	1042-07-070	SAT	None.	
5"	N/A	305-006-112					
1B13-H5-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-085	SAT	None.	
5"	N/A	305-006-112					
1B13-H RPV Cl	5-S LOSURE HE	AD STUD	B-G- 1 B6.20	UT	0944-07-E057	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-H RPV Cl	5-S -OSURE HE	AD STUD	B-G-1 86.20	UT	0944-07-E058	NRI	Zone 2 Exam.
5 "	N/A	305-006-112					

Descri	iption of Co	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-H5-T RPV SHELL, THREADS IN FLANGE		B-G-1 B6.40	UT	0944-07-E086	NRI	Achieved approximately 92% coverage.	
AREA 5"	N/A	305-006-112					
1B13-H5-W RPV CLOSURE HEAD WASHER			B-G-1 B6.50	VT-1	1042-07-071	SAT	None.
5"	N/A	305-006-112					
1B13-H6-N RPV CLOSURE HEAD NUT			B-G-1 B6.10	VT-1	1042-07-054	SAT	None.
5"	N/A	305-006-112					
1B13-H6-S RPV CLOSURE HEAD STUD			B-G-1 B6.20	UT	0944-07-E059	NRI	Zone 1 Exam.
5 "	N/A	305-006-112					
1B13-H6-S RPV CLOSURE HEAD STUD			B-G-1 B6.20	υτ	0944-07-E060	NRI	Zone 2 Exam.
5"	N/A	305-006-112					
1B13-H6-T RPV SHELL, THREADS IN FLANGE		B-G-1 86.40	UT	0944-07-E087	NRI	Achieved approximately 92% coverage.	
AREA 5"	N/A	305-006-112					
1B13-H6-W RPV CLOSURE HEAD WASHER			B-G-1 B6.50	VT-1	1042-07-044	SAT	None.
5*	N/A	305-006-112					
1B13-H7-N RPV CLOSURE HEAD NUT			B-G-1 B6.10	VT-1	1042-07-055	SAT	None.
5*	N/A	305-006-112					
1B13-H RPV C	17-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E061	NRI	Zone 1 Exam.
5"	N/A	305-006-112					
1B13-H7-S RPV CLOSURE HEAD STUD			B-G-1 B6.20	UT	0944-07-E062	NRI	Zone 2 Exam.
5*	N/A	305-006-112					

Descri	ption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
			B-G-1	UT	0944-07-E088	NRI	Achieved approximately 92% coverage.
1B13-H7-T RPV SHELL, THREADS IN FLANGE AREA			B6.40	O1	0344-07-2000	IVIXI	Achieved approximately 92 % coverage.
5"	N/A	305-006-112					
1B13-H7-W RPV CLOSURE HEAD WASHER			B-G-1 B6.50	VT-1	1042-07-045	SAT	None.
5 "	N/A	305-006-112					
1B13-H8-N RPV CLOSURE HEAD NUT			B-G-1 B6.10	VT-1	1042-07-056	SAT	None.
5"	N/A	305-006-112					
1B13-H8-S RPV CLOSURE HEAD STUD		B-G-1 B6.20	UT	0944-07-E063	NRI	Zone 1 Exam.	
5"	N/A	305-006-112					
1813-H8-S RPV CLOSURE HEAD STUD			B-G-1 B6.20	UT	0944-07-E064	NRI	Zone 2 Exam.
5 "	N/A	305-006-112					
1B13-H8-T RPV SHELL, THREADS IN FLANGE			B-G-1 B6.40	UT	0944-07-E089	NRI	Achieved approximately 92% coverage.
ARÉA 5"	N/A	305-006-112					
	1B13-H8-W RPV CLOSURE HEAD WASHERS		B-G-1 B6.50	VT-1	1042-07-046	SAT	None.
5*	N/A	305-006-112					
1B13-H9-N RPV CLOSURE HEAD NUT		B-G-1 B6.10	VT-1	1042-07-057	SAT	None.	
5"	N/A	305-006-112					
1B13-H9-S RPV CLOSURE HEAD STUD		B-G-1 B6.20	UT	0944-07-E065	NRI	Zone 1 Exam.	
5"	N/A	305-006-112					
1B13-H RPV CL	9-S LOSURE HE	AD STUD	B-G-1 B6.20	UT	0944-07-E066	NRI	Zone 2 Exam.
5"	N/A	305-006-112					

Descri	omponent Examined ption of Component	ASME Category ASME	Exam			
Size -	Sched ISI Dwg. N	o. Item No.	Method	Exam Report No.	Status	Remarks
1B13-H RPV SH AREA	9-T HELL, THREADS IN FLAN	B-G-1 GE B6.40	UT	0944-07-E090	NRI	Achieved approximately 92% coverage.
5"	N/A 305-006-112	·				
1B13-H RPV Cl	9-W LOSURE HEAD WASHER:	B-G-1 S B6.50	VT-1	1042-07-047	SAT	None.
5"	N/A 305-006-112	?				
1B13-N RECIRI RADIUS 22"	C OUTLET NOZZLE N1A I		VT-1	1Q800-07-027	NRI	VT-1 with 1 mil wire resolution. 100% coverage and no indications.
1B13-N RECIR VESSE 22"	COUTLET NOZZLE N1A		UT	1Q800-07-007	NRI	96.4% coverage and no indications.
1B13-N RECIR SAFE-E 22"	C OUTLET NOZZLE N1A		A-UT	1Q800-07-025	GEO	None.
1B13-N RECIRI SAFE-E 12"	C. INLET NOZZLE N2A TO		A-UT	1Q800-07-015	GEO	None.
1B13-N RECIRI RADIU: 12"	C INLET NOZZLE N2B IN		A-UT	1Q800-07-009	NRI	None.
1B13-N RECIRO VESSE 12"	C INLET NOZZLE N2B TO		A-UT	1Q800-07-014	IND	94.6% coverage. One acceptable subsurface indication.
1B13-N RECIR SAFE-E 12"	C. INLET NOZZLE N2B TO		A-UT	1Q800-07-016	GEO	None.
1B13-N RECIR SAFE-E 12"	C INLET NOZZLE N2C TO		A-UT	1Q800-07-017	GEO	None.

ASME Category

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-N2D-KB RECIRC. INLET NOZZLE N2D TO SAFE-END 12" 1.125" 305-006-107	R-A R2.14	A-UT	1Q800-07-018	GEO	None.
1B13-N2E-IR RECIRC INLET NOZZLE N2E INNER RADIUS 12* N/A 305-006-107	B-D B3.100	A-UT	1Q800-07-010	NRI	None.
1B13-N2E-KA RECIRC INLET NOZZLE N2E TO VESSEL 12* N/A 305-006-107	B-D B3.90	A-UT	1Q800-07-011	NRI	94.6% coverage. No relevant indications.
1B13-N2E-KB RECIRC. INLET NOZZLE N2E TO SAFE-END 12" 1.125" 305-006-107	R-A R2.14	A-UT	1Q800-07-019	GEO	None.
1B13-N2F-KB RECIRC. INLET NOZZLE N2F TO SAFE-END 12" 1.125" 305-006-107	R-A R2.14	A-UT	1Q800-07-020	GEO	None.
1B13-N2G-KB RECIRC. INLET NOZZLE N2G TO SAFE-END 12" 1.125" 305-006-107	R-A R2.14	A-UT	1Q800-07-021	GEO	None.
1B13-N2H-KB RECIRC. INLET NOZZLE N2H TO SAFE-END 12" 1.125" 305-006-107	R-A R2.14	A-UT	1Q800-07-022	GEO	None.
1B13-N2J-KB RECIRC INLET NOZZLE N2J TO SAFE- END 12" 1.125" 305-006-107	R-A R2.14	A-UT	1Q800-07-023	GEO	None.
1B13-N2K-IR RECIRC INLET NOZZLE N2K INNER RADIUS 12* N/A 305-006-107	B-D B3.100	A-UT	1Q800-07-012	NRI	None.
1B13-N2K-KA RECIRC INLET NOZZLE N2K TO VESSEL 12' N/A 305-006-107	B-D B3.90	A-UT	1Q800-07-013	NRI	94.6% coverage. No relevant indications.

ID of Component Exami	c	ASME Category				
Description of Compon Size - Sched ISI Dv			Exam Method	Exam Report No.	Status	Remarks
1B13-N2K-KB RECIRC INLET NOZZLE NZ END	KTO SAFE-R	t-A R2.14	A-UT	1Q800-07-024	GEO	None.
12" 1.125" 305-00	6-107					
1B13-N4E-KB FEEDWATER NOZZLE N4E END		R-A R2.11	A-UT	1Q800-07-026	IND	Two flaws sized essentially same as RFO7.
12" 1.16" 305-00	6-108					
1B13-N9A-KB JET PUMP NOZZŁE N9A T END		R-A R3.ND	UT	0944-07-E136	NRI	60° RL exam.
4" N/A 305-00	6-106					
1B13-N9A-KB JET PUMP NOZZLE N9A T END		R-A R3.ND	UT	0944-07-E135	NRI	45° RL exam.
4" N/A 305-00	6-106					
1B13-N9A-KB JET PUMP NOZZLE N9A T END		R-A R3.ND	UΤ	0944-07-E134	NRI	45° S exam.
4" N/A 305-00	6-106					
1B13-N9A-KB JET PUMP NOZZLE N9A T END		R-A R3.ND	UT	0944-07-E133	NRI	38° RL exam.
4" N/A 305-00	6-106					
1B13-N9A-KC JET PUMP INSTR. NOZZLE END TO PENE. SEAL	N9A SAFE- R	R-A 33.ND	UT	0944-07-E194	NRI	45° S exam.
4* N/A 305-00	6-106					
1B13-N9A-KC JET PUMP INSTR. NOZZLE END TO PENE. SEAL		R-A R3.ND	UT	0944-07-E195	NRI	70° S exam.
4" N/A 305-00	6-106					
1B13-N9B-IR JET PUMP NOZZLE N9B IN RADIUS		3-D 33.100	UT	1Q800-07-006	NRI	None.
4" N/A 305-00	6-106					
1B13-N9B-KA JET PUMP NOZZLE N9B T		3-D 33.90	υτ	1Q800-07-008	NRI	94.8% coverage
4" N/A 305-00	6-106					

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Descri	omponent ption of Co Sched		Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-N JET PU END		EN9B TO SAFE-	R-A R3.ND	UT	0944-07-E137	NRI	38° RL exam
4"	N/A	305-006-106					
1B13-N JET PU END		: N9B TO SAFE-	R-A R3.ND	υT	0944-07-E140	NRI	60° RL exam.
4"	N/A	305-006-106					
1B13-N JET PU END		N9B TO SAFE-	R-A R3.ND	UT	0944-07-E138	NRI	45° S exam.
4"	N/A	305-006-106					
1B13-N JET PU END		N9B TO SAFE-	R-A R3.ND	UT	0944-07-E139	NRI	45° RL exam.
4"	N/A	305-006-106					
		NOZZLE N9B SAFE- AL 305-006-106	R-A R3.ND	UT	0944-07-E197	NRI	70°S exam.
		NOZZLE N9B SAFE- AL 305-006-106	R-A R3.ND	UT	0944-07-E196	NRI	45° S exam.
9 CRD	RGT-1b GUIDE TUB! MENT LUG V N/A	E SLEEVE TO VELDS 305-006-120	X-A X9.10	VT-3	1Q800-07-029	SAT	Examined CRGT-2 weld of CRGTs 14/23, 14/39, 46/23, and 46/39. 100% coverage and no indications.
9 CRD	RGT-2b GUIDE TUB! E WELDS N/A	E BODY TO 305-006-120	X-A X9.20	EVT1	1Q800-07-030	SAT	Examined CRGT-2 weld of CRGTs 14/23, 46/23, 46/39 and 54/31. 100% coverage on 3 & 80% on one, no relevant indications.
		E BASE TO BODY 305-006-120	X-A X9.20	EVT1	1Q800-07-031	SAT	Examined CRGT-3 weld of CRGTs 14/23, 14/39, 46/23, and 46/39. 100% coverage and no relevant indications.
1B13-C CORE S SHROU N/A		TRUCTURE, 305-006-121	B-N-2 B13.40	EVT1	1Q800-07-131	SAT	Approx 50% of H-10 & H-12 welds and 35% of H-11 from diffuser hole at 98 degrees. No indications.

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1B13-CSPT-SL-05 CORE SUPPORT STRUCTURE, SHROUD LEG N/A N/A 305-006-121	B-N-2 B13.40	EVT1	1Q800-07-132	SAT	Approx 25% of H-10, H-11, and H-12 welds. No indications.
1B13-CSHP-CW-P2 HP CORE SPRAY FLOW DIVIDER REDUCER WELDS 6" 120/40 305-006-113	X-A X3.11	EVT1	1Q800-07-033	SAT	50% coverage for P2 and P2a welds, no indications.
1B13-CSHP-CW-P3b HP CORE SPRAY HORIZONTAL PIPE TO COUPLING 6* 40 305-006-113	X-A X3.11	EVT1	1Q800-07-034	SAT	45% coverage and no indications.
1B13-CSHP-CW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-07-035	SAT	45% coverage and no indications.
1B13-CSHP-CW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-07-036	SAT	45% coverage and no indications.
1B13-CSHP-CW-P6 HP CORE SPRAY COUPLING TO LOWER RISER PIPE 6" 40 305-006-113	X-A X3.11	EVT1	1Q800-07-037	SAT	45% coverage and no indications.
1B13-CSHP-CW-P4c HP CORE SPRAY LOWER RISER PIPE TO ELBOW 6" 40/120 305-006-113	X-A X3.11	EVT1	1Q800-07-038	SAT	40% coverage and no indications.
1B13-CSHP-CW-P4d HP CORE SPRAY ELBOW TO SHROUD FLANGE 6" 120/40 305-006-113	X-A X3.11	EVT1	1Q800-07-039	SAT	80% coverage and no indications.
1B13-CSHP-CCW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6* 40 305-006-113	X-A X3.10	EVT1	1Q800-07-040	SAT	45% coverage and no indications.
1B13-CSHP-CCW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-07-041	SAT	45% coverage and no indications.

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ID of Component Examin Description of Compone Size - Sched ISI Dw	ent ASME	Exam Method	Exam Report No.	Status	Remarks
1B13-CSHP-CCW-P8 HP CORE SPRAY SHROUD TO SHROUD 6" 40 305-00		VT-1	1Q800-07-042	SAT	100% coverage and no indications.
1B13-CSLP-P1 LP CORE SPRAY THERMAI TO FLOW DIVIDER WELDS 10" 120 305-00	(2)	EVT1	1Q800-07-043	SAT	No credible EVT1 coverage for P1 and only 10% coverage for P1a. No indications.
1B13-CSLP-CW-P3a LP CORE SPRAY COUPLIN HORIZONTAL PIPE 6" 40 305-00		EVT1	1Q800-07-044	SAT	40% coverage and no indications.
1B13-CSLP-CW-P5 LP CORE SPRAY UPPER R TO COUPLING 6" 40 305-00		EVT1	1Q800-07-045	SAT	40% coverage and no indications.
1B13-CSLP-CCW-P3a LP CORE SPRAY COUPLIN HORIZONTAL PIPE 6' 40 305-00		EVT1	1Q800-07-046	SAT	45% coverage and no indications.
1B13-CSLP-CCW-P5 LP CORE SPRAY UPPER R TO COUPLING 6' 40 305-00		EVT1	1Q800-07-047	SAT	45% coverage and no indications.
1B13-CSLP-CCW-P6 LP CORE SPRAY COUPLIN LOWER RISER PIPE 6° 40 305-00		EVT1	1Q800-07-048	SAT	45% coverage and no indications.
1B13-CSS-7-SB CORE SPRAY SPARGER B N/A 305-00		VT-1	1Q800-07-049	SAT	80% coverage of brackets at 32 and 50 degrees and 90-100% coverage of their bolting on the outside of the shroud. No indications.
1B13-CSS-173-S2 CORE SPRAY SPARGER T SPARGER PIPE WELDS (2) 5" 305-00		EVT1	1Q800-07-050	SAT	35% coverage on counter-clockwise side and 50% coverage on clockwise side. No indications.
1B13-CSS-173-S3ab CORE SPRAY SPARGER S NOZZLE WELDS (2 EA NOZ 5* 305-00	ZZ)	VT-1	1Q800-07-051	SAT	50% coverage and no indications.

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-CSS-173-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2) 5" 305-006-115	X-A X3.20	EVT1	1Q800-07-052	SAT	50% coverage for both welds and no indications.
1B13-CSS-173-SB CORE SPRAY SPARGER BRACKETS N/A N/A 305-006-116	X-A X3.22	EVT1	1Q800-07-053	SAT	70-80% coverage for each of the ten (10) brackets and 100% coverage for the bracket bolting on the outside of the shroud. No indications.
1B13-CSS-187-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELDS (2) 5" 305-006-115	X-A X3.20	EVT1	1Q800-07-054	SAT	45% coverage for the counter-clockwise weld and 50% coverage for the clockwise weld. No indications.
1B13-CSS-187-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2) 5" 305-006-115	X-A X3.20	EVT1	1Q800-07-055	SAT	45% coverage for the counter-clockwise weld and 40% coverage for the clockwise weld. No indications.
1B13-CSS-187-SB CORE SPRAY SPARGER BRACKETS N/A N/A 305-006-116	X-A X3.22	VT-1	1Q800-07-056	SAT	70-80% coverage for each of the ten (10) brackets and 100% coverage for the bracket bolting on the outside of the shroud. No indications.
1B13-CS-H8 SHROUD SUPPORT CYLINDER TO SHROUD SUPPORT PLATE N/A N/A 305-006-121	X-A X5.21	EVT1	1Q800-07-133	SAT	Approx. 10 degrees of the underside from JP-6 diffuser hole. No indications.
1B13-CS-H9 SHROUD SUPPORT PLATE TO RX VESSEL WALL N/A N/A 305-006-121	X-A X5.20	EVT1	1Q800-07-134	SAT	Approx. 10 degrees of the underside from JP-6 diffuser hole. No indications.
1B13-FSGT-AP1b 9 CRD GUIDE TUBE & FUEL SUPPORT ALIGNMENT PINS N/A N/A 305-006-120	X-A X9.10	VT-3	1Q800-07-032	SAT	Examined alignment pins of CRGTs 14/23, 46/23, 46/39 and 54/13. 80% coverage and no indications.
1B13-FWS-DAM 150 DEGREE FW SPARGER DAMAGE, NOZZ 5-8 FROM CCW N/A N/A 305-006-118	X-A X6.13	VT-3	1Q800-07-057	SAT	100% coverage and no evidence of further degradation.
1B13-INTERIOR REACTOR VESSEL INTERIOR REGION N/A N/A 305-006-101	B-N-1 B13.10	VT-3	1Q800-07-058	SAT	100% coverage of accessible areas above the top guide flange. No relevant indications beyond previously addressed RPV crud.

ID of Component E Description of Com Size - Sched IS	ponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B13-UPPER-INT VESSEL INTERIOR AI SPARGERS N/A N/A 3	BOVE FW 805-006-101	X-A X6.15	VT-3	1Q800-07-059	SAT	Inspection of upper vessel interior areas for RPV crud issue. No significant changes noted. See INR PNPP-R11-IVVI-07-08 for crud deposits comparison.
1B13-IRM-16/13 IRM INSTRUMENT DR	RY TUBE B	X-A X2.10	VT-3	1Q800-07-060	SAT	100% coverage of upper 2ft from two opposing quadrants. No indications.
1B13-IRM-16/53 IRM INSTRUMENT DE		X-A X2.10	VT-3	1Q800-07-061	SAT	100% coverage of upper 2ft from two opposing quadrants. No indications.
1B13-IRM-24/29 IRM INSTRUMENT DE	RY TUBE D 305-006-117	X-A X2.10	VT-3	1Q800-07-062	SAT	100% coverage of upper 2ft from two opposing quadrants. No indications.
1B13-IRM-24/37 IRM INSTRUMENT DE	RY TUBE C 305-006-117	X-A X2.10	VT-3	1Q800-07-063	SAT	100% coverage of upper 2ft from two opposing quadrants. No indications.
1B13-JPA-P3/P4 JET PUMP NOZZLE T ASSEMBLY N/A N/A 3	O MIXER 305-006-126	X-A X1.30	VT-3	1Q800-07-064	SAT	Examined mixer throat of JP-3. No excessive crud build-up noted.
1B13-JPA-P13/P14 JET PUMP NOZZLE T ASSEMBLY N/A N/A 3	O MIXER 305-006-126	X-A X1.30	VT-3	1Q800-07-065	SAT	Examined mixer throat of JP-13. No excessive crud build-up noted.
1B13-JPDF-P11/P12 JET PUMP DIFFUSEF N/A N/A 3	R WELDS (10) 305-006-126	X-A X1.90	EVT1	1Q800-07-066 .	SAT	Examined DF-1, 2, 3a, 3b and AD-2 welds of JPs 11 & 12. 25-40% coverage on DF welds, 25% coverage on AD-2 welds. No indications.
1B13-JPDF-P13/P14 JET PUMP DIFFUSEF N/A N/A 3	R WELDS (10) 305-006-126	X-A X1.90	EVT1	1Q800-07-067	SAT	Examined DF-1, 2, 3a, 3b and AD-2 welds of JPs 13 & 14. 25-30% coverage on DF welds, 40% coverage on AD-2 welds. No indications.
1B13-JPDF-P15/P16 JET PUMP DIFFUSEF N/A N/A 3	R WELDS (10) 305-006-126	X-A X1.90	EVT1	1Q800-07-068	SAT	Examined DF-1, 2, 3a, 3b and AD-2 welds of JPs 15 & 16. 15-35% coverage on DF welds, 20-40% coverage on AD-2 welds. No indications.

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Descr	ription of (nt Examined Component - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	JPDF-P17/P UMP DIFFU	18 SER WELDS (10)	X-A X1.90	EVT1	1Q800-07-069	SAT	Examined DF-1, 2, 3a, 3b and AD-2 welds of JPs 17 & 18. 10-40% coverage on DF welds, 20% coverage on
N/A	N/A	305-006-126					AD-2 welds. No indications.
	JPDF-P19/P UMP DIFFU	20 SER WELDS (10)	X-A X1.90	EVT1	1Q800-07-070	SAT	Examined DF-1, 2, 3a, 3b and AD-2 welds of JPs 19 & 20. 20-40% coverage on DF welds, 20% coverage on AD-2 welds, No indications.
N/A	N/A	305-006-126					
	JPIN-P11/P UMP INLET	12 WELDS (4)	X-A X1.80	EVT1	1Q800-07-071	SAT	Examined IN-1 and IN-2 welds of JPs 11 & 12. 20-40% coverage and no indications.
N/A	N/A	305-006-126					
	JPIN-P13/P UMP INLET	14 WELDS (4)	X-A X1.80	EVT1	1Q800-07-072	SAT	Examined IN-1 and IN-2 welds of JPs 13 & 14. 20-25% coverage and no indications.
N/A	N/A	305-006-126					
	JPIN-P15/P UMP INLET	16 WELDS (4)	X-A X1.80	EVT1	1Q800-07-073	SAT	Examined IN-1 and IN-2 welds of JPs 15 & 16. 25% coverage and no indications.
N/A	N/A	305-006-126					
	JPIN-P17/P UMP INLET	18 WELDS (4)	X-A X1.80	EVT1	1Q800-07-074	SAT	Examined IN-1 and IN-2 welds of JPs 17 & 18. 25% coverage and no indications.
N/A	N/A	305-006-126					
	JPIN-P19/P2 UMP INLET	20 WELDS (4)	X-A X1.80	EVT1	1Q800-07-075	SAT	Examined IN-1 and IN-2 welds of JPs 19 & 20. 25% coverage and no indications.
N/A	N/A	305-006-126					
JET P	JPLAW-P11 UMP SENSI CHMENT W N/A	ING LINE	X-A X1.20	VT-3	1Q800-07-076	SAT	Examined the 3 sensing line brackets of JP-11 and they were all intact.
JET P	JPLAW-P12 UMP SENSI CHMENT W N/A	ING LINE	X-A X1.20	VT-3	1Q800-07-077	SAT	Examined the 3 sensing line brackets of JP-12 and they were all intact.
JET P	JPLAW-P13 UMP SENS CHMENT W N/A	ING LINE	X-A X1.20	VT-3	1Q800-07-078	SAT	Examined the 3 sensing line brackets of JP-13 and they were all intact.

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Descri	Component Examined iption of Component Sched ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
JET PU	PLAW-P14 JMP SENSING LINE HMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-079	SAT	Examined the 3 sensing line brackets of JP-14 and they were all intact.
JET PL	PLAW-P15 JMP SENSING LINE IHMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-080	SAT	Examined the 3 sensing line brackets of JP-15 and they were all intact.
JET PU	PLAW-P16 JMP SENSING LINE HMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-081	SAT	Examined the 3 sensing line brackets of JP-16 and they were all intact.
JET PL	PLAW-P17 JMP SENSING LINE HMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-082	SAT	Examined the 3 sensing line brackets of JP-17 and they were all intact.
JET PU	PLAW-P18 JMP SENSING LINE HMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-083	SAT	Examined the 3 sensing line brackets of JP-18 and they were all intact.
JET PU	PLAW-P19 JMP SENSING LINE :HMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-084	SAT	Examined the 3 sensing line brackets of JP-19 and they were all intact.
JET PL	PLAW-P20 JMP SENSING LINE HMENT WELDS N/A 305-006-125	X-A X1.20	VT-3	1Q800-07-085	SAT	Examined the 3 sensing line brackets of JP-20 and they were all intact.
	PRB-P11/P12 JMP RISER BRACE WELDS (8) N/A 305-006-125	X-A X1.40	EVT1	1Q800-07-086	SAT	Examined RB-1a-d and RB-2a-d welds. 45-100% coverage and no indications.
	PRB-P13/P14 JMP RISER BRACE WELDS (8) N/A 305-006-125	X-A X1.40	EVT1	1Q800-07-087	SAT	Examined RB-1a-d and RB-2a-d welds. 40-100% coverage and no indications.
	PRB-P15/P16 JMP RISER BRACE WELDS (8) N/A 305-006-125	X-A X1.40	EVT1	1Q800-07-088	SAT	Examined RB-1a-d and RB-2a-d welds. 40-100% coverage and no indications.

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1B13-JPRB-P17/P18 JET PUMP RISER BRACE WELDS (8)	X-A X1.40	EVT1	1Q800-07-089	SAT	Examined RB-1a-d and RB-2a-d welds. 50-60% coverage and no indications.
N/A N/A 305-006-125					
1B13-JPRB-P19/P20 JET PUMP RISER BRACE WELDS (8)	X-A X1.40	EVT1	1Q800-07-090	SAT	Examined RB-1a-d and RB-2a-d welds. 50% coverage and no indications.
N/A N/A 305-006-125					
1B13-JPRBA-P11/P12 JET PUMP RISER BRACE ARM/VESSEL ATTACHMENT WELDS N/A N/A 305-006-125	B-N-2 B13.20	EVT1	1Q800-07-091	SAT	Exams performed in conjunction with BWRVIP-41 riser brace to vessel exams. No indications.
1B13-JPRBA-P13/P14 JET PUMP RISER BRACE ARM/VESSEL ATTACHMENT WELDS N/A N/A 305-006-125	B-N-2 B13.20	EVT1	1Q800-07-092	SAT	Exams performed in conjunction with BWRVIP-41 riser brace to vessel exams. No indications.
1B13-JPRBA-P15/P16 JET PUMP RISER BRACE ARM/VESSEL ATTACHMENT WELDS N/A N/A 305-006-125	B-N-2 B13.20	EVT1	1Q800-07-093	SAT	Exams performed in conjunction with BWRVIP-41 riser brace to vessel exams. No indications.
1B13-JPRBA-P17/P18 JET PUMP RISER BRACE ARM/VESSEL ATTACHMENT WELDS N/A N/A 305-006-125	B-N-2 B13.20	EVT1	1Q800-07-094	SAT	Exams performed in conjunction with BWRVIP-41 riser brace to vessel exams. No indications.
1B13-JPRBA-P19/P20 JET PUMP RISER BRACE ARM/VESSEL ATTACHMENT WELDS N/A N/A 305-006-125	B-N-2 B13.20	EVT1	1Q800-07-095	SAT	Exams performed in conjunction with BWRVIP-41 riser brace to vessel exams. No indications.
1B13-JPREW-P1/P2 JET PUMP RISER ELBOW WELDS (2)	X-A X1.70	EVT1	1Q800-07-096	SAT	100% coverage on RS-1, 50% on RS-2. No indications.
N/A N/A 305-006-126					
1B13-JPREW-P3/P4 JET PUMP RISER ELBOW WELDS (2)	X-A X1.70	EVT1	1Q800-07-097	SAT	100% coverage on RS-1, 50% on RS-2. No indications.
N/A N/A 305-006-126					
1B13-JPRS6-P11/P12 JET PUMP RISER PIPE TO RESTRAINER BRACKET WELDS (2) N/A N/A 305-006-126	X-A X1.72	EVT1	1Q800-07-098	SAT	Examined RS-6 (JP-12 side) and RS-7 (JP-11 side) welds. 60% coverage RS-6 and 65% coverage RS-7. No indications.

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-JPRS6-P13/P14 JET PUMP RISER PIPE TO RESTRAINER BRACKET WELDS (2) N/A N/A 305-006-126	X-A X1.72	EVT1	1Q800-07-099	SAT	Examined RS-6 (JP-14 side) and RS-7 (JP-13 side) welds. 60% coverage for both RS-6 and RS-7. No indications.
1B13-JPRS6-P15/P16 JET PUMP RISER PIPE TO RESTRAINER BRACKET WELDS (2) N/A N/A 305-006-126	X-A X1.72	EVT1	1Q800-07-100	SAT	Examined RS-6 (JP-16 side) and RS-7 (JP-15 side) welds. 60% coverage for RS-6 and 50% for RS-7. No indications.
1B13-JPRS6-P17/P18 JET PUMP RISER PIPE TO RESTRAINER BRACKET WELDS (2) N/A N/A 305-006-126	X-A X1.72	EVT1	1Q800-07-101	SAT	Examined RS-6 (JP-18 side) and RS-7 (JP-17 side) welds. 80% coverage for for both RS-6 and RS-7. No indications.
1B13-JPRS6-P19/P20 JET PUMP RISER PIPE TO RESTRAINER BRACKET WELDS (2) N/A N/A 305-006-126	X-A X1.72	EVT1	1Q800-07-102	SAT	Examined RS-6 (JP-20 side) and RS-7 (JP-19 side) welds, 60% coverage for for both RS-6 and RS-7. No indications.
1B13-JPRS8-P11/P12 JET PUMP RISER PIPE TO RISER BRACE YOKE WELDS (2) N/A N/A 305-006-125	X-A X1.72	EVT1	1Q800-07-103	SAT	Examined RS-8 (lower) and RS-9 (upper) riser brace to yoke welds. 90% coverage for for both RS-8 and RS-9. No indications.
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	1Q800-07-104	SAT	Examined RS-8 (lower) and RS-9 (upper) riser brace to yoke welds. 90% coverage for for both RS-8 and RS-9. No indications.
1B13-JPRS8-P15/P16 JET PUMP RISER PIPE TO RISER BRACE YOKE WELDS (2) N/A N/A 305-006-125	X-A X1.72	EVT1	1Q800-07-105	SAT	Examined RS-8 (lower) and RS-9 (upper) riser brace to yoke welds, 90% coverage for for both RS-8 and RS-9. No indications.
1B13-JPRS8-P17/P18 JET PUMP RISER PIPE TO RISER BRACE YOKE WELDS (2) N/A N/A 305-006-125	X-A X1.72	EVT1	1Q800-07-106	SAT	Examined RS-8 (lower) and RS-9 (upper) riser brace to yoke welds, 80% coverage for RS-8 and 60% for RS-9. No indications.
1B13-JPRS8-P19/P20 JET PUMP RISER PIPE TO RISER BRACE YOKE WELDS (2) N/A N/A 305-006-125	X-A X1.72	EVT1	1Q800-07-107	SAT	Examined RS-8 (lower) and RS-9 (upper) riser brace to yoke welds. 70% coverage for RS-8 and 80% for RS-9. 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	1Q800-07-028	SAT	Pre-disassembly found a small gap (< 0.010) on vessel side set screw, none upon re-assembly.

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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
1B13-JPWD-P1/P2 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-108	SAT	Examined wedge assemblies of JPs 1 and 2. No signs of wear.
1B13-JPWD-P3/P4 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-109	SAT	Examined wedge assemblies of JPs 3 and 4. No signs of wear. Minor rub marks on wedge rod of JP-4.
1B13-JPWD-P5/P6 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-110	SAT	Examined wedge assemblies of JPs 5 and 6. No signs of wear.
1B13-JPWD-P7/P8 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-111	SAT	Examined wedge assemblies of JPs 7 and 8. No signs of wear.
1B13-JPWD-P9/P10 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-112	SAT	Examined wedge assemblies of JPs 9 and 10. Minor wedge rod wear on JP-10 (see CR 07-18581).
1B13-JPWD-P11/P12 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-113	SAT	Examined wedge assemblies of JPs 11 and 12. No signs of wear.
1B13-JPWD-P13/P14 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-114	SAT	Examined wedge assemblies of JPs 13 and 14. No signs of wear.
1B13-JPWD-P15/P16 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-115	SAT	Examined wedge assemblies of JPs 15 and 16. No signs of wear on JP-16 and wedge wear found on JP-15 in RFO10 is unchanged (see CR 07-18578).
1B13-JPWD-P17/P18 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-116	SAT	Examined wedge assemblies of JPs 17 and 18. Minor wedge rod wear on JP-17 (see CR 07-18581).
1B13-JPWD-P19/P20 JET PUMP RESTRAINER BRACKET WEDGE BEARING SURFACE N/A N/A 305-006-125	X-A X1.51	VT-1	1Q800-07-117	SAT	Examined wedge assemblies of JPs 19 and 20. No signs of wear.

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Category

ID of Componer Description of C Size - Sched	Component	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1813-LPRM-SAMF LPRM INSTRUME SAMPLE N/A N/A	NT DRY TUBES 10% 305-006-117	X-A X2.11	VT-3	1Q800-07-118	SAT	Examined LPRMs 24/41, 32/57, 40/57, 41/16, 48/17 and 48/41 from one quadrant, and 40/49 and 48/25 from two quadrants. No indications.
1B13-LPCI-B61 LOOP B LPCI COL WELDS (4) N/A N/A	JPLING PIPE 305-006-124	X-A X8.10	EVT1	1Q800-07-119	SAT	BWRVIP-42 6-1a through 6-1d welds. Best effort exam for 6-1a weld as it is within nozzle bore. 40-50% coverage on other welds. No indications.
1B13-LPCI-BST LOOP B LPCI COL WELDS (3) N/A N/A	JPLING STRUT 305-006-124	X-A X8.20	EVT1	1Q800-07-120	SAT	BWRVIP-42 6-4, 6-5a and 6-5b welds. 75-90% coverage and indications.
1B13-LPCI-B66 LOOP B LPCI SHF RING WELD N/A N/A	ROUD ATTACHMENT 305-006-124	X-A X8.30	VE	1Q800-07-121	SAT	BWRVIP-42 6-6b weld. 90% coverage and indications.
1B13-SD-STRUCT STEAM DRYER S' N/A N/A		X-A X4.11	VT-3	1Q800-07-122	SAT	Examined 90 and 270 degree sides for comparison of crud to previous outage. No significant changes noted.
1B13-SHSAM SHROUD HEAD S LOCKING PINS N/A N/A	TUD ASY MOD 305-006-119	X-A X6.14	VT-3	1Q800-07-123	SAT	Examined the 16 SHSAMs for anti-rotation pin wear. The worst was the counter-clockwise side of #2 with 45% wear (see CR 07-18329).
1B13-SRM-16/45 SRM INSTRUMEN N/A N/A	IT DRY TUBE A 305-006-117	X-A X2.10	VT-3	1Q800-07-124	SAT	Examined upper 2 feet of SRM from two opposing quadrants. No indications.
1B13-SRM-40/21 SRM INSTRUMEN N/A N/A	IT DRY TUBE C 305-006-117	X-A X2.10	VT-3	1Q800-07-125	SAT	Examined upper 2 feet of SRM from two opposing quadrants. No indications.
1B13-SSAHC SHROUD SUPPOI COVER WELD N/A N/A	RT ACCESS HOLE 305-006-121	X-A X5.30	EVT1	1Q800-07-126	SAT	Examined cover plate to cylinder and cylinder to shroud support plate welds. 40% coverage and no indications.
1B13-SSL SHROUD SUPPOF N/A N/A	RT LEG WELDS 305-006-101	X-A X5.40	EVT1	1Q800-07-135	SAT	Portions of H-10, H-11 and H-12 Shroud Support leg welds of legs 4 and 5. No indications.

ID of Component		ASME Category ASME	Exam			
Size - Sched	•	Item No.	Method	Exam Report No.	Status	Remarks
1B21-0129 26" PEN. P124 PRO VALVE F028A 26" 1.196"	OCESS PIPE TO 305-605-107	R-A R2.ND	UT	0944-07-E141	GEO	Counterbore located 1.8" DNST valve side from Weld CL.
1B21-F0028C-IS 26" GLOBE, MSIV,I SURFACE (GROUF 26" N/A		B-M-2 B12.50	VT-3	1042-07A-023	SAT	Internal inspection performed when valve was reworked due to failed LLRT. Interior exan acceptable, but CR 07-18780 written for seat indications.
1B21-F028A-1B MSIV STUD		B-G-1 B6.210	UT	0944-07-E106	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-1B MSIV STUD		B-G-1 B6.210	UT	0944-07-E105	NRI	Additional exams for indications found in 1B21-F028A-18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-2B MSIV STUD		B-G-1 B6.210	UT	0944-07-E107	NRI	Additional exams for indications found in 1B21-F028A-18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-2B MSIV STUD		B-G-1 B6.210	UT	0944-07-E108	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-3B MSIV STUD		B-G-1 B6.210	UT	0944-07-E109	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-3B MSIV STUD		B-G-1 B6.210	UT	0944-07-E110	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-4B MSIV STUD		B-G-1 B6.210	UΤ	0944-07-E111	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A N/A	305-605-111					
1B21-F028A-4B MSIV STUD		B-G-1 B6.210	UT	0944-07-E112	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A N/A	305-605-111					

Desci	ription of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B21-I MSIV	F028A-5B STUD		B-G-1 B6.210	UT	0944-07-E114	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A	N/A	305-605-111					
1B21-I MSIV	F028A-5B STUD		B-G-1 B6.210	UT	0944-07-E113	NRI	Additional exams for indications found in 1B21-F028A- 18B that were later proven to be non-relevant.
N/A	N/A	305-605-111					
1B21- MSIV	F028A-6B STUD		B-G-1 B6.210	UT	0944-07-E115	NRI	Additional exams for indications found in 1B21-F028A-18B that were later proven to be non-relevant.
N/A	N/A	305-605-111					
1B21- MSIV	F028A-6B STUD		B-G-1 B6.210	UT	0944-07-E116	NRI	Additional exams for indications found in 1B21-F028A-18B that were later proven to be non-relevant.
N/A	N/A	305-605-111					
1B21- MSIV	F028A-13B STUD		B-G-1 B6.210	UT	0944-07-E094	GEO	Zone 2 Exam.
N/A	N/A	305-605-111					
1B21- MSIV	F028A-13B STUD		B-G-1 B6.210	υτ	0944-07-E093	NRI	Zone 1 Exam.
N/A	N/A	305-605-111					
1B21- MSIV	F028A-14B STUD		B-G-1 B6.210	UT	0944-07-E096	NRI	Zone 2 Exam.
N/A	N/A	305-605-111					
1821- MSIV	F028A-14B STUD		B-G-1 B6.210	UT	0944-07-E095	NRI	Zone 1 Exam.
N/A	N/A	305-605-111					
1B21- MSIV	F028A-15B STUD		B-G-1 B6.210	UT	0944-07-E098	NRI	Zone 2 Exam.
N/A	N/A	305-605-111					
1821- MSIV	F028A-15B STUD		B-G-1 B6.210	UT	0944-07-E097	NRI	Zone 1 Exam.
N/A	N/A	305-605-111					

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Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B21-F MSIV S	F028A-16B STUD		B-G-1 B6.210	UT	0944-07-E100	NRI	Zone 2 Exam.
N/A	N/A	305-605-111					
1B21-F MSIV (F028A-16B STUD		B-G-1 B6.210	UT	0944-07-E099	NRI	Zone 1 Exam.
N/A	N/A	305-605-111					
1B21-I MSIV	F028A-17B STUD		B-G-1 B6.210	UT	0944-07-E102	NRI	Zone 2 Exam.
N/A	N/A	305-605-111					
1B21-I MSIV	F028A-17B STUD		B-G-1 B6.210	UT	0944-07-E101	NRI	Zone 1 Exam.
N/A	N/A	305-605-111					
1B21-I MSIV	-028A-18B STUD		8-G-1 B6.210	UT	0944-07-E104	GEO	Zone 2 Exam. Reference Report No. 0944-07-E094 (Page 2) for Indications 1 and 2.
N/A	N/A	305-605-111					
1B21-I MSIV	F028A-18B STUD		B-G-1 B6.210	UT	0944-07-E103	NRI	Zone 1 Exam.
N/A	N/A	305-605-111					
1B21-I MECH	10004 ANICAL SNI	JBBER	F-A F3.SN	VT-3	VT-07-0202	SAT	None.
14"	N/A	305-605-128					
1B21-I VARIA	H0053 BLE SPRING	G (WA)	F-A F3.SP	VT-3	1042-07-033	SAT	None.
14"	N/A	305-605-130					
		HMENT VARIABLE	D-Ac D1.20	VT-1	1042-07-034	SAT	None.
1B21-	H0119 IANICAL SNI	JBBER (WA) 305-605-122	F-A F3.SN	VT-3	VT-07-0207/0208	SAT	None.

ASME Category

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
Size - Sched ISI Dwg. No.	Rem No.	metrou	Exam Report No.	Status	Remains
1B21-H0119-WA INTEGRAL ATTACHMENT MECHANICAL SNUBBER 12" N/A 305-605-122	D-Ac D1.20	VT-1	1042-07-086	SAT	None.
1B21-H0161 RIGID STRUT (WA)	F-A F3.ST	VT-3	1042-07-016	SAT	None.
12" N/A 305-605-124					
1B21-H0489 RIGID GUIDE	F-A F1.G	VT-3	1042-07-013	SAT	None.
2* N/A 305-605-105					
1B21-P124-WA P124 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26" 1.196 305-605-107	B-Kc B10.20	MT	0942-07A-014	SAT	Examined the outside surfaces, equalling 50% coverage (IR-007), of the Flued Head Penetration attachment weld.
1B21-P124-WA @ P124 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26" 1.196 305-605-107	X-E X10.20	UT	0944-07-E131	NRI	Augmented exam for High Energy Break Exclusion Region requirements.
1B21-P124-WA @ P124 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26" 1.196 305-605-107	X-E X10.20	UT	0944-07-E130	NRI	Augmented exam for High Energy Break Exclusion Region requirements.
1B21-P124-WA @ P124 FLUED HD FITTING TO PROCESS PIPE ATTACH WELD 26" 1.196 305-605-107	X-E X10.20	UT	0944-07-E132	NRI	Augmented exam for High Energy Break Exclusion Region requirements.
1B21-S102A HYDRAULIC SNUBBER MPL 1B21G7072 26" N/A 305-605-101	F-A F1.SN	VT-3	VT-07-0436	SAT	None.
1B21-S107C HYDRAULIC SNUBBER MPL 1B21G7091 26" N/A 305-605-103	F-A F1.SN	VT-3	VT-07-0437	SAT	None.
1B33-C001B-1B PUMP BOLTING	B-G-1 B6.180	UT	0944-07-E155	NRI	Zone 2 Exam.
N/A N/A 305-602-105					

ID of C	Component	t Examined	ASME Category				
	iption of Co Sched	omponent ISI Dwg. No.	ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	:001B-1B BOLTING		B-G-1 B6.180	UT	0944-07-E154	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	:001B-2B BOLTING		B-G-1 B6.180	UT	0944-07-E156	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-2B BOLTING		B-G-1 86.180	UT	0944-07-E157	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	001B-3B BOLTING		B-G-1 B6.180	UT	0944-07-E159	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	0001B-3B BOLTING		B-G-1 B6.180	UT	0944-07-E158	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-4B BOLTING		B-G-1 B6.180	UT	0944-07-E160	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	0001B-4B BOLTING		B-G-1 B6.180	UT	0944-07-E161	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	C001B-5B BOLTING		B-G-1 B6.180	UT	0944-07-E163	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	C001B-5B BOLTING		B-G-1 B6.180	UT	0944-07-E162	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	C001B-6B BOLTING		B-G-1 B6.180	UT	0944-07-E165	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					

Descri	otion of Co	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B33-C0	001B-6B BOLTING		B-G-1 B6.180	UT	0944-07-E164	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-7B BOLTING		B-G-1 B6.180	UT	0944-07-E166	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-7B BOLTING		B-G-1 B6.180	UT	0944-07-E167	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	001B-8B BOLTING		B-G-1 B6.180	UT	0944-07-E168	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-8B BOLTING		B-G-1 B6.180	UT	0944-07-E169	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	001B-9B BOLTING		B-G-1 B6.180	UT	0944-07-E170	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-9B BOLTING		B-G-1 B6.180	UT	0944-07-E171	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	001B-10B BOLTING		B-G-1 B6.180	UT	0944-07-E172	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-10B BOLTING		B-G-1 B6.180	UT	0944-07-E173	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	001B-11B BOLTING		B-G-1 B6.180	UT	0944-07-E175	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					

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Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	001B-11B BOLTING		B-G-1 B6.180	UT	0944-07-E174	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
1B33-0 NUT	C001B-11N		B-G-1 B6.200	VT-1	1042-07-091	SAT	None.
N/A	N/A	305-602-105					
	C001B-12B BOLTING		B-G-1 B6.180	UT	0944-07-E177	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	C001B-12B BOLTING		B-G-1 B6.180	υT	0944-07-E176	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
1B33-0 NUT	C001B-12N		B-G-1 B6.200	VT-1	1042-07-092	SAT	None.
N/A	N/A	305-602-105					
	C001B-13B BOLTING		B-G-1 B6.180	UT	0944-07-E179	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	C001B-13B BOLTING		B-G-1 B6.180	UT	0944-07-E178	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
1B33-0 NUT	C001B-13N		B-G-1 B6.200	VT-1	1042-07-093	SAT	None.
N/A	N/A	305-602-105					
	C001B-14B BOLTING		B-G-1 B6.180	UT	0944-07-E181	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	C001B-14B BOLTING		B-G-1 B6.180	UT	0944-07-E180	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					

Descri	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B33-C NUT	001B-14N		B-G-1 B6.200	VT-1	1042-07-094	SAT	None.
N/A	N/A	305-602-105					
	001B-15B BOLTING		B-G-1 B6.180	UT	0944-07-E182	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
	001B-15B BOLTING		B-G-1 B6.180	UT	0944-07-E183	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
1B33-0 NUT	001B-15N		B-G-1 B6.200	VT-1	1042-07-095	SAT	None.
N/A	N/A	305-602-105					
	1B33-C001B-16B PUMP BOLTING		B-G-1 B6.180	UT	0944-07-E185	NRI	Zone 2 Exam.
N/A	N/A	305-602-105					
	001B-16B BOLTING		B-G-1 B6.180	UT	0944-07-E184	NRI	Zone 1 Exam.
N/A	N/A	305-602-105					
1B33-0 NUT	001B-16N		B-G-1 B6.200	VT-1	1042-07-096	SAT	None.
N/A	N/A	305-602-105					
1B33-H VARIAI		G, MPL 1B33G7021B	F-A F1.SP	VT-3	1042-07-087	SAT	None.
16"	N/A	305-602-103					
1B33-S371A HYDRAULIC SNUBBER, PUMP MOTOR, MPL 1B33G7066A N/A N/A 305-602-102		F-A F1.40	VT-3	VT-07-0416	SAT	None.	
1C11-0033 8" PIPE TO TEE			C-F-2 C5.51	UT	0944-07-E091	NRI	ID geometry observed intermittently 360° below recordable levels.
8"	100	305-871-104					

	ID of Component Examined Description of Component			Exam			
	-	ISI Dwg. No.	ASME Item No.	Method	Exam Report No.	Status	Remarks
1C11-0 8" X 12		G ELBOW TO PIPE	C-F-2 C5.51	UT	0944-07-E092	NRI	ID geometry observed intermittently 360° below recordable levels.
12"	100	305-871-101					
1C11-I RIGID	H0040 GUIDE (WA)		F-A F2.G	VT-3	1042-07-019	SAT	None.
8"	N/A	305-871-104					
PIPING	H0040-WA G SUPPORT CHMENT N/A	WELDED 305-871-104	C-Cc C3.20	PT	0941-07A-003	SAT	None.
	H0050 STRUT		F-A F2.ST	VT-3	1042-07-018	SAT	None.
8"	N/A	305-871-101					
	H0663 IANICAL SNU	/BBER	F-A F2.SN	VT-3	VT-07-0065	SAT	None.
8*	N/A	305-871-103					
1E12-(18" PII	0055 PE TO VALV	E F067	C-F-2 C5.51	UT	0944-07-E016	NRI	None.
18"	40	305-642-110					
1E12-I VALVE	0056 E F067 TO 18	" PIPE	C-F-2 C5.51	UT	0944-07-E017	NRI	None.
18"	40	305-642-110					
1E12-(24" PII	0086 PE TO FLAN	GE	C-F-2 C5.51	UT	0944-07-E014	NRI	None.
24"	40	305-642-114					
1E124 24" Pil	0086 PE TO FLAN	GE	C-F-2 C5.51	UT	0944-07-E013	NRI	None.
24"	40	305-642-114					
		EXCHANGER ZLE 305-643-113	C-F-2 C5.51	UT	0944-07-E003	NRI	None.

Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E12-0)215 PE TO VALV	E F029C	C-F-2 C5.51	UT	0944-07-E015	NRI	None.
18"	40	305-643-117					
1E12-0 ELBOV	0638 V TO 18" PIF	PE	C-F-2 C5.51	UT	0944-07-E004	NRI	Previous geometry noted below recording levels.
18"	STD	305-643-109					
1E12-0 12" EL	068 8 BOW TO PIF	PE	C-F-2 C5.51	UT	0944-07-E009	GEO	Observed root geometry above and below recordable levels intermittently 360°.
12"	40	305-642-136					
1E12-0 12" EL	0688 BOW TO PIF	PE	C-F-2 C5.51	UT	0944-07-E010	GEO	Observed root geometry at varying amplitudes intermittently 360° as previously recorded.
12"	40	305-642-136					
1E12-0 12" EL	0696 BOW TO PIF	PE	R-A R2.ND	UT	0944-07-E127	NRI	None.
12"	80	305-642-137					
1E12-0 12" EL	0696 BOW TO PIF	PE	R-A R2.ND	UT	0944-07-E128	NRI	None.
12"	80	305-642-137					
1E12-0 12" EL)696 BOW TO PIF	PE	R-A R2.ND	UT	0944-07-E129	GEO	Root and Counterbore.
12"	80	305-642-137					
1E12-0 12* PIF	0718 PE TO ELBO	W	R-A R2.ND	UT	0944-07-E126	GEO	Previously recorded geometry observed with no significant change.
12"	80	305-642-141					
1E12-0839 18" PIPE TO 18" X 18" X 18" TEE			C-F-2 C5.51	UT	0944-07-E018	GEO	Previously recorded geometry observed with no significant changes.
18*	40	305-643-120					
	002C-004 FLANGE TO	HEAD SHELL	C-G C6.10	MT	0942-07A-010	SAT	None.
N/A	N/A	305-643-122					

Descri	iption of Co	•	ASME Category ASME	Exam			
	Sched	ISI Dwg. No.	Item No.	Method PT	Exam Report No. 0941-07A-002	Status SAT	None.
HEAD S	SHELL TO H	EAD COVER	C6.10				
N/A	N/A	305-643-122					
	002C-009 SHELL TO H	EAD COVER	C-G C6.10	MT	0942-07A-011	SAT	None.
N/A	N/A	305-643-122					
	002C-010 SHELL LONG	GITUDINAL SEAM	C-G C6.10	MT	0942-07A-012	SAT	None.
N/A	N/A	305-643-122					
1E12-H RIGID :	10027 SUPPORT		F-A F1.R	VT-3	1042-07-023	SAT	None.
12"	N/A	305-642-142					
1E12-H MECH/	10036 ANICAL SNU	JBBER	F-A F1.SN	VT-3	VT-07-0092	SAT	None.
12"	N/A	305-642-135					
1E12-F MECH/	10051 ANICAL SNL	JBBER	F-A F1.SN	VT-3	VT-07-0118	SAT	None.
12"	N/A	305-642-137					
1E12-F RIGID (10062 GUIDE (WA)		F-A F3.G	VT-3	1042-07-036	SAT	None.
12"	N/A	305-642-149					
		HMENT RIGID	D-Ac D1.20	VT-1	1042-07-037	SAT	None.
12*	N/A	305-642-149					
1E12-F RIGID	10084 STRUT		F-A F2.STm	VT-3	1042-07-021	SAT	None.
10"	N/A	305-642-133					
1E12-H ANCH(H0102 OR (WA < .7)	5° T)	F-A F2.A	VT-3	1042-07-008	SAT	None.
	N/A	305-641-117					

Descr	iption of C	nt Examined Component ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E12-H RIGID	H0123 STRUT		F-A F2.ST	VT-3	1042-07-007	SAT	Reference Condition Report Number 07-16400.
12"	N/A	305-642-132					
1E12-H RIGID			F-A F2.G	VT-3	1042-07-011	SAT	None.
	N/A	305-641-116					
1E12-H RIGID	H0185 STRUT		F-A F2.ST	VT-3	1042-07-006	SAT	None.
	N/A	305-643-101					
1E12-F MECH	H0190 ANICAL SNI	UBBER	F-A F2.SN	VT-3	VT-07-0071	SAT	None.
	N/A	305-643-111					
1E12-H0237 VARIABLE SPRING		3	F-A F2.SP	VT-3	1042-07-002	SAT	None.
18"	N/A	305-643-113					
1E12-F RIGID	H0304 STRUT		F-A F2.ST	VT-3	1042-07-004	SAT	None.
8"	N/A	305-641-115					
1E12-F MECH	H0365 ANICAL SNI	UBBER	F-A F2.SN	VT-3	VT-07-0079	SAT	None.
24"	N/A	305-642-114					
PIPING	H0369-WA G SUPPORT CHMENT N/A	WELDED 305-642-114	C-Cc C3.20	MT	0942-07A-009	SAT	None.
1E12-H0382 MECHANICAL SNUBBER		UBBER	F-A F2.SN	VT-3	VT-07-0078	SAT	None.
	N/A	305-642-114					
1E12-H0384 VARIABLE SPRING (WA < .75" T) 10" N/A 305-642-114		G (WA < .75" T) 305-642-114	F-A F2.SP	VT-3	1042-07-010	SAT	Reference Condition Report Number 07-16404.

Descr	ription of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E12-I MECH		JBBER (TANDEM)	F-A F2.SN	VT-3	VT-07-0055/0056	SAT	None.
18"	N/A	305-643-109					
1E12-I MECH		JBBER (TANDEM)	F-A F2.SN	VT-3	VT-07-0053/0054	SAT	None.
6"	N/A	305-643-109					
1E12-I VARIA	H0661 ABLE SPRINC	6	F-A F2.SP	VT-3	1042-07-032	SAT	None.
12"	N/A	305-642-137					
1E12-I RIGID	H0693 GUIDE		F-A F2.G	VT-3	1042-07-017	SAT	None.
12"	N/A	305-642-137					
1E12-I MECH	H0694 IANICAL SNL	JBBER	F-A F3.SN	VT-3	VT-07-0066	SAT	None.
12*	N/A	305-642-149					
1E12-I RIGID	H0708 STRUT (WA)	F-A F2.ST	VT-3	1042-07-012	SAT	None.
18"	N/A	305-643-117					
PIPIN(H0708-WA G SUPPORT CHMENT	WELDED	C-Cc C3.20	MT	0942-07A-013	SAT	None.
18*	N/A	305-643-117					
1E12-l RIGID	H0718 STRUT		F-A F2.ST	VT-3	1042-07-022	SAT	None.
	N/A	305-642-133					
	1E12-H0726 HYDRAULIC SNUBBER		F-A F1.SN	VT-3	VT-07-0119	SAT	None.
12*	N/A	305-642-141					
1E12-H0748 RIGID GUIDE		F-A F1.Gs	VT-3	1042-07-035	SAT	None.	
12"	N/A	305-642-141					

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Descri	ption of C	t Examined omponent ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E12-H	0787 NICAL SNI	IRRED	F-A F2.SN	VT-3	VT-07-0057	SAT	None.
WILCI II	N/A	305-642-132	72.011				
	IV/A	303-042-132					
	407-SP DR, PEN TC	CONTAINMENT	F-A F2.A	VT-3	1042-07-026	SAT	None.
(,		305-642-133					
1E22-0 12" ELE	002 30W TO PII	PE	R-A R2.ND	UT	0944-07-E125	GEO	Previously recorded geometry observed with no significant change.
12"	80	305-701-111					
1E22-0 16" FL <i>A</i>	055 NGE TO P	IPE	C-F-2 C5.51	UT	0944-07-E007	NRI	None.
16"	100	305-701-103					
1E22-0056 24" PIPE TO FLANGE		IGE	C-F-2 C5.51	UΤ	0944-07-E008	NRI	None.
24"	STD	305-701-103					
1E22-0087 12" PIPE TO ELBOW)W	C-F-2 C5.51	UT	0944-07-E005	NRI	None.
12"	100	305-701-105					
24" SU	:001-008 CTION FLA ON PIPE	NGE TO 24*	C-G C6.10	MT	0942-07A-004	SAT	None.
24"	N/A	305-701-114					
	:001-009 CTION PIPI	E TO HEAD SHELL	C-G C6.10	MT	0942-07A-005	SAT	None.
N/A	N/A	305-701-114					
	:001-010 SHELL TO	HEAD COVER	C-G C6.10	MT	0942-07A-006	SAT	None.
N/A	N/A	305-701-114					
	:001-012 CTION PIPI	E LONGITUDINAL	C-G C6.10	MT	0942-07A-007	SAT	None.
N/A	N/A	305-701-114					

Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E22-F026-SEAM 6" GATE VALVE BODY WELD			C-G C6.20	MT	0942-07A-001	SAT	None.
6"	N/A	305-701-114					
12" GA	F036-SEAM ITE VALVE I JPING NO. X N/A	BODY WELD (VIII) 305-701-111	B-M-1 B12.40	UT	0944-07-E124	GEO	Previously recorded geometry noted. No changes observed.
12" GA	F036-SEAM NTE VALVE I JPING NO. X N/A	BODY WELD (VIII) 305-701-111	B-M-1 B12.40	UΤ	0944-07-E123	NRI	None.
1E22-F MECH	H0005 ANICAL SNU	JBBER	F-A F1.SN	VT-3	VT-07-0120	SAT	None.
12"	N/A	305-701-111					
1E22-H0006 VARIABLE SPRING		G	F-A F1.SP	VT-3	1042-07-025	SAT	None.
12"	N/A	305-701-111					
1E22-ł VARIA		G (WA < .75° T)	F-A F2.SP	VT-3	1042-07-005	SAT	None.
24"	N/A	305-701-101					
1E22-H RIGID	H0043 GUIDE		F-A F2.Gs	VT-3	1042-07-009	SAT	None.
24"	N/A	305-701-103					
1E22-ł MECH	H0057 ANICAL SNI	UBBER	F-A F2.SN	VT-3	VT-07-0045	SAT	None.
16"	N/A	305-701-106					
1E22-I RIGID	H0063 STRUT		F-A F2.ST	VT-3	1042-07-001	SAT	None.
16"	N/A	305-701-107					
PIPINO	H0085-WA G SUPPORT CHMENT N/A	WELDED 305-701-112	C-Cc C3.20	МТ	0942-07A-008	SAT	None.

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	Component	Examined	ASME Category ASME	Exam			
		ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1E22-H RIGID S	10133 STRUT (WA)		F-A F3.ST	VT-3	1042-06-023	SAT	None.
24"	N/A	305-355-101					
		HMENT RIGID	D-Ac D1.20	VT-1	1042-06-022	SAT	Not scheduled for credit, but WA was examined at same time the support was examined.
24"	N/A	305-355-101					
AIR RE	004B-SP CEIVER TAI DRT (WA) N/A	NK (A004B) 305-351-101	F-A F1.40	VT-3	1042-06-020	SAT	None.
INTEG	:004B-WA RAL ATTACI VER TANK (. N/A	HMT AIR A004B) SUPPORT 305-351-101	D-Ac D1.10	VT-1	1042-06-019	SAT	None.
		ING ON VALVE 305-605-107	R-A R2.ND	UT	0944-07-E119	NRI	UT of piping base material HAZ.
		ING ON VALVE 305-605-107	R-A R2.ND	VT-1	1042-07-029	NRI	None.
		ING ON VALVE 305-605-107	R-A R2.ND	UT	0944-07-E120	NRI	UT of piping base material HAZ.
1E32-0 2* PIPE		SOCKET WELD	R-A R2.ND	VT-1	1042-07-028	NRI	None.
2"	160	305-605-107					
1E32-0 2" PIPE		SOCKET WELD	R-A R2.ND	UT	0944-07-E117	NRI	UT of piping base material HAZ.
2"	160	305-605-107					
1E32-0 2" PIPE		SOCKET WELD	R-A R2.ND	UT	0944-07-E118	NRI	UT of piping base material HAZ.
2"	160	305-605-107					

-	Descrip	tion of Co	Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	1E51-000 6" PIPE 1			C-F-2 C5.51	UT	0944-07-E006	NRI	None.
(3"	120	305-631-102					
	1E51-009 8" X 12"		TO 12" PIPE BEND	C-F-2 C5.51	UT	0944-07-E011	NRI	Scans from pipe side of weld.
	12"	STD	305-632-103					
	1E51-009 8" X 12"		TO 12" PIPE BEND	C-F-2 C5.51	UT	0944-07-E012	NRI	Scans from tee side of weld.
	12"	STD	305-632-103					
	NOZZLE	JMP CASIN	G TO SUCTION 305-631-109	C-G C6.10	PT	0941-07A-001	SAT	One acceptable rounded indication.
	PUMP S ATTACH	001-A-WA UPPORT V IMENT N/A	VELDED 305-631-109	C-Cc C3.30	MT	0942-07A-002	SAT	Only 82.6% coverage due to support assembly
	1E51-C0 ANCHOF	001-SP R, PUMP (V	VA)	F-A F1.40	VT-3	1042-07-003	SAT	None.
	N/A	N/A	305-631-109					
1	6" GATE (GROUP	013-SEAM : VALVE BC PING NO. X 1.500"	DDY WELD	B-M-1 B12.40	UT	0944-07-E002	GEO	94% coverage with 70 deg angle. Previously recorded geometry noted. No changes apparent.
	6" GATE (GROUP	0013-SEAM E VALVE BO PING NO. X 1.500"	DDY WELD	B-M-1 B12.40	UT	0944-07-E001	NRI	100% coverage with 45 deg angle.
	10" GAT	064-SEAM E VALVE E PING NO. X 2.200"	ODY WELD	B-M-1 B12.40	UT	0944-07-E122	GEO	94% coverage with 70 deg angle. Previously recorded geometry noted. No changes apparent.
	10" GAT	0064-SEAM E VALVE E PING NO. X 2.200"	BODY WELD	B-M-1 B12.40	UT	0944-07-E121	NRI	100% coverage with 45 deg angle.

Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1E51-F0066-IS 6"CHECK VALVE INTERNAL SURFACE(GROUPING NO. XXIII) 6" N/A 305-631-108			B-M-2 B12.50	VT-3	1042-07A-024	SAT	Performed valve internal inspection while vavle was apart to replace Kalrez seat. No indications.
1E51-F0502-SEAM 6* GATE VALVE BODY WELD			C-G C6.20	MT	0942-07A-003	SAT	None.
6"	1.500"	305-631-109					
1E51-H MECH/		JBBER (WA < .75" T)	F-A F2.SN	VT-3	VT-07-0042	SAT	None.
12 "	N/A	305-632-104					
	1E51-H0141 VARIABLE SPRING		F-A F2.SP	VT-3	1042-07-030	SAT	None.
10"	N/A	305-632-102					
1E51-H0151 RIGID STRUT		F-A F1.ST	VT-3	1042-07-020	SAT	None.	
<i>e</i>	N/A	305-631-107					
1E51-P123-SP ANCHOR, PEN TO SHIELD BLDG (WA)		F-A F1.A	VT-3	1042-07-031	SAT	None.	
		305-631-106					
1G33-0063 6" P131 PROCESS PIPE TO PIPE		R-A R2.ND	UT	0944-07-E199	NRI	None.	
6*	80	305-671-104					
1G33-0064F 6" ELBOW TO PIPE		X-B X10.10	υτ	0944-07-E200	NRI	None.	
6*	120	305-671-104					
1G33-0122 6" X 6" X 6" TEE TO VALVE F051A		C-F-2 C5.51	UT	0944-07-E198	NRI	None.	
6"	120	305-672-101					
1G33-H0146 MECHANICAL SNUBBER (AUGMENTED HEPIBER) 6" N/A 305-671-104			F-A aug F5.0	VT-3	VT-07-0383	SAT	None.

Descriptio	ponent Examined on of Component ched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1N22-0037 2" PIPE TO WELD 2" 16	3" X 3" X 2" TEE BUTT 0 305-121-102	R-A R2.11	UT	0944-07-E188	GEO	70° exam.
1N22-0037 2" PIPE TO WELD 2" 16	3" X 3" X 2" TEE BUTT 0 305-121-102	R-A R2.11	UT	0944-07-E186	NRI	0° Exam.
1N22-0037 2" PIPE TO WELD 2" 16	3" X 3" X 2" TEE BUTT 0 305-121-102	R-A R2.11	UT	0944-07-E187	NRI	45° exam.
1N22-0067 2" X 3" RED WELD 3" 16	DUCER TO 3" PIPE BUTT 0 305-121-101	R-A R2.11	UT	0944-07-E151	NRI	No counterbore observed.
1N22-0067 2" X 3" REE WELD 3" 16	DUCER TO 3" PIPE BUTT 0 305-121-101	R-A R2.11	UT	0944-07-E150	NRI	UT of piping base material HAZ.
1N22-0068 3* PIPE TO WELD 3* 16	3" X 3" X 2" TEE BUTT 0 305-121-101	R-A R2.11	UT	0944-07-E152	NRI	UT of piping base material HAZ.
1N22-0068 3" PIPE TO WELD 3" 16	3" X 3" X 2" TEE BUTT 0 305-121-101	R-A R2.11	UT	0944-07-E153	NRI	No counterbore observed. Scanned to maintain a 5-20% ID roll.
1N22-0073 3" X 3" X 2" WELD 3" 16	TEE TO 3* PIPE BUTT 0 305-121-103	R-A R2.11	UT	0944-07-E143	NRI	No counterbore observed. Scanned to maintain a 5-20% ID roll.
1N22-0073 3" X 3" X 2" WELD 3" 16	TEE TO 3* PIPE BUTT 0 305-121-103	R-A R2.11	UT	0944-07-E142	NRI	UT of piping base material HAZ.
1N22-0076 3* P423 PR BUTT WEL 3* 16		R-A R1.11	UT	0944-07-E148	NRI	UT of piping base material HAZ.

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.			ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1N22-00 3" P423 BUTT W 3"	PROCESS	PIPE TO PIPE 305-121-103	R-A R1.11	UT	0944-07-E149	GEO	Root geometry observed 360° at varying amplitudes.
1N22-0106 2" PIPE TO ELBOW SOCKET WELD			R-A R2.11	UT	0944-07-E145	IND	Spot ind. observed in the second leg outside of exam volume. Scanned to maintain a 5-20% ID roll.
2"	160	305-121-101					
1N22-0 2" PIPE		SOCKET WELD	R-A R2.11	UT	0944-07-E144	NRI	UT of piping base material HAZ.
2"	160	305-121-101					
	1N22-0106 2" PIPE TO ELBOW SOCKET WELD		R-A R2.11	VT-1	1042-07-089	NRI	None.
2*	160	305-121-101					
1N22-0107 2" ELBOW TO PIPE SOCKET WELD		E SOCKET WELD	R-A R2.11	UT	0944-07-E146	NRI	UT of piping base material HAZ.
2"	160	305-121-101					
1N22-0107 2" ELBOW TO PIPE SOCKET WELD			R-A R2.11	VT-1	1042-07-090	NRI	None.
2"	160	305-121-101					
1N22-0107 2" ELBOW TO PIPE SOCKET WELD		SOCKET WELD	R-A R2.11	UT	0944-07-E147	IND	Spot indication observed in the second leg outside of exam volume. Scanned to maintain a 5-20% ID roll.
2"	160	305-121-101					
1N22-01 2" PIPE WELD		X 2" TEE BUTT	R-A R2.11	UT	0944-07-E191	GEO	70° exam. 0944-07-E190 (45° S)
2"	160	305-121-102					
1N22-01 2" PIPE WELD 2"		X 2" TEE BUTT 305-121-102	R-A R2.11	UT	094 4- 07-E190	NRI	45° exam.
1N22-0° 2" PIPE WELD 2"		X 2" TEE BUTT 305-121-102	R-A R2.11	UT	0944-07-E189	NRI	0° exam.

Descr	iption of Co	Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	1N22-H0129 MECHANICAL SNUBBER			VT-3	VT-07-0467	SAT	None.
2"	N/A	305-121-102					
1N27-H0032 RIGID GUIDE (WA)			F-A F2.G	VT-3	1042-07-027	SAT	VT-1 examination performed in lieu of Surface examination in accordance with IR-026.
20"	N/A	305-082-101					
	1N27-H1127 RIGID GUIDE (AUGMENTED HEPIBER)			VT-3	1042-07-015	SAT	None.
1-1/2"	N/A	305-971-101					
1N27-H RIGID		MENTED HEPIBER)	F-A aug F5.0	VT-3	1042-07-014	SAT	None.
1-1/2"	N/A	305-971-101					
1P42-H VARIAI	10112 BLE SPRING	G (WA)	F-A F3.SP	VT-3	1042-06-025	SAT	None.
10"	N/A	305-621-106					
	1P42-H0112-WA INTEGRAL ATTACHMENT VARIABLE			VT-1	1042-06-024	SAT	None.
10"	N/A	305-621-106			-		
1P42-H RIGID			F-A F3.G	VT-3	1042-06-027	SAT	None.
12"	N/A	305-621-110					
1P42-F ANCH(. •	F-A F3.A	VT-3	1042-06-042	SAT	None.
10"	N/A	305-621-103					
1P42-H RIGID	10215 STRUT		F-A F3.STm	VT-3	1042-06-043	SAT	None.
10"	N/A	305-621-102					
	1P45-D003-SP ANCHOR, FILTER SUPPORT (WA)			VT-3	1042-06-039	SAT	None.
N/A	N/A	305-791-107					

Descript	tion of Co	Examined omponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
Size - Sched ISI Dwg. No. 1P45-H0063			F-A F3.G	VT-3	1042-06-012	SAT	None.
RIGID GU		005 =00 440	r3.G				
16" N	N/A	305-792-112					
1P45-H02 RIGID SU			F-A F3.R	VT-3	1042-06-009	SAT	None.
14" N	N/A	305-791-113					
1P45-H02 MECHANI	216 IICAL SNU	BBER	F-A F3.SN	VT-3	1042-06-011	SAT	None.
24" N	N/A	305-791-112					
1P45-H03 RIGID GU			F-A F3.G	VT-3	1042-06-006	SAT	None.
14" N	N/A	305-792-116					
1P45-H04 RIGID STI			F-A F3.ST	VT-3	1042-06-033	SAT	None.
	N/A	305-791-101	10.01				
1P45-H0605 RIGID GUIDE			F-A F3.Gs	VT-3	1042-06-014	SAT	None.
14"	N/A	305-791-113					
1P45-H0683		F-A	VT-3	1042-06-028	SAT	None.	
RIGID RO	OD		F3.R				
14" 1	N/A	305-792-105					
1P45-H5003 RIGID STRUT (WA)		F-A F3.ST	VT-3	1042-06-017	SAT	None.	
24" N	N/A	305-791-112					•
1P45-H50 INTEGRA STRUT		HMENT RIGID	D-Ac D1.20	VT-1	1042-06-013	SAT	None.
	N/A	305-791-112					
1P47-H00 RIGID ST			F-A F3.STm	VT-3	1042-06-041	SAT	None.
10" 1	N/A	305-002-107					

ID of Component E Description of Com Size - Sched IS	ponent	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1P47-H0031 RIGID SUPPORT (WA	N)	F-A F3.R	VT-3	1042-06-008	SAT	None.
10" N/A 3	305-002-103					
1P47-H0031-WA INTEGRAL ATTACHM SUPPORT 10" N/A 3	MENT RIGID 805-002-103	D-Ac D1.20	VT-1	1042-06-007	SAT	None.
1P47-H0053 RIGID STRUT		F-A F3.ST	VT-3	1042-06-026	SAT	None.
10" N/A 3	805-002-102					
1P47-H0280 RIGID GUIDE		F-A F3.G	VT-3	1042-06-044	SAT	None.
10" N/A 3	305-002-105					•
1P47-H0385 RIGID STRUT		F-A F3.STm	VT-3	1042-06-005	SAT	None.
8" N/A 3	305-002-113					
0P49-C002A-SP ANCHOR, SCREEN W	VASH PUMP (WA)	F-A F1.40	VT-3	1042-06-016	SAT	None.
N/A N/A 3	305-214-101					
0P49-C002A-WA INTEGRAL ATTACHN WASH PUMP ANCHO N/A N/A 3		D-Ac D1.30	VT-1	1042-06-015	SAT	None.
1R44-A001A-SP ANCHOR, STARTING TANK (WA) N/A N/A 3	S AIR RECEIVER 305-351-102	F-A F1.40	VT-3	1042-06-031	SAT	None.
1R44-A001A-WA INTEGRAL ATTACHM AIR RECEIVER TANK N/A N/A 3		D-Ac D1.10	VT-1	1042-06-032	SAT	None.
1R45-A003A-SP ANCHOR, FUEL OIL I N/A N/A 3	DAY TANK (WA) 305-355-110	F-A F1.40	VT-3	1042-06-051	SAT	None.

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Category

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1R45-A003A-WA INTEGRAL ATTACHMENT FUEL OIL DAY TANK ANCHOR N/A N/A 305-355-110	D-Ac D1.10	VT-1	1042-06-050	SAT	None.
1R46-A003A-SP ANCHOR, JACKET WATER STAND PIPE (WA) N/A N/A 305-354-105	F-A F1.40	VT-3	1042-06-029	SAT	None.
1R46-A003A-WA INTEGRAL ATTACHMENT JACKET WATER STAND PIPE ANCHOR N/A N/A 305-354-105	D-Ac D1.10	VT-1	1042-06-030	SAT	None.
1R47-A001A-SP STANDBY DIESEL GENERATOR ŁUBE OIL TANK ANCHOR (WA) N/A N/A 305-353-103	F-A F1.40	VT-3	1042-06-049	SAT	None.
1R47-A001A-WA INTEGRAL ATTACHMENT LUBE OIL TANK ANCHOR N/A N/A 305-353-103	D-Ac D1.10	VT-1	1042-06-048	SAT	None.
1R48-D001B-SP ANCHOR, STANDBY DIESEL SILENCER (WA) N/A N/A 305-355-104	F-A F1.40	VT-3	1042-06-046	SAT	None.
1R48-D001B-WA INTEGRAL ATTACHMENT STANDB' DIESEL SILENCER ANCHOR N/A N/A 305-355-104	D-Ac Y D1.20	VT-1	1042-06-045	SAT	None.
1R48-D002B-SP ANCHOR; STANDBY DIESEL SILENCER (WA) N/A N/A 305-355-102	F-A F1.40	VT-3	1042-06-047	SAT	None.
1R48-D003B-SP ANCHOR; STANDBY DIESEL SILENCER (WA) N/A N/A 305-355-102	F-A F1.40	VT-3	1042-06-036	SAT	None.
1R48-D010B-SP ANCHOR; STANDBY DIESEL SILENCER N/A N/A 305-355-106	F-A F1.40	VT-3	1042-06-035	SAT	None.

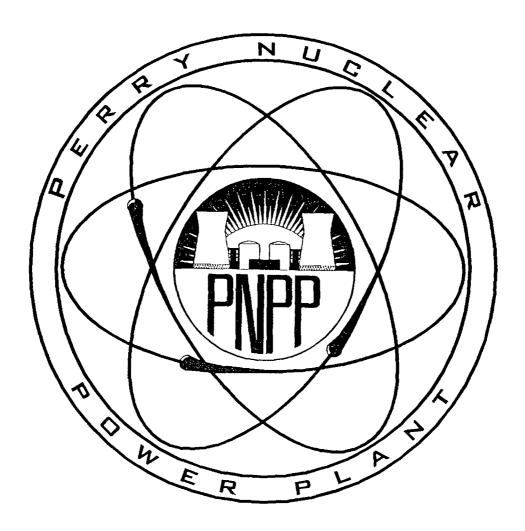
Descr	iption of Co	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1R48-H RIGID			F-A F3.G	VT-3	1042-06-034	SAT	None.
24"	N/A	305-355-102					
1R48-H MECH. (TAND 36"	ANICAL SNU	JBBER (WA) 305-355-105	F-A F3.SN	VT-3	1042-06-053	SAT	None.
INTEG	10027-WA RAL ATTACI ANICAL SNU N/A		D-Ac D1.20	VT-1	1042-06-052	SAT	None.
1R48-I VARIA	H0033 BLE SPRING	6	F-A F3.SP	VT-3	1042-06-018	SAT	None.
26"	N/A	305-355-104					
1R48-F RIGID			F-A F3.R	VT-3	1042-06-021	SAT	None.
6"	N/A	305-355-108					
2P42-l RIGID	10026 STRUT (WA)	F-A F3.ST	VT-3	1042-06-040	SAT	None.
12"	N/A	305-623-110					
2P42-I RIGID	10148 SUPPORT (1	WA)	F-A F3.R	VT-3	1042-06-038	SAT	None.
10"	N/A	305-623-104					
		HMENT RIGID 305-623-104	D-Ac D1.20	VT-1	1042-06-037	SAT	None.
PIPINO		EAKAGE TEST	B-P B15.50	VT-2	1Q800-07-127	SAT	Pressure testing accomplished by various ISI instructions.
N/A	N/A	305-NO-DWG					
	S 1, PUMPS S-SYSTEM L N/A	LEAKAGE TEST 305-NO-DWG	B-P B15.60	VT-2	1Q800-07-128	SAT	Pressure testing accomplished by various ISI instructions.

ID of Component Examined Description of Component	ASME Category ASME Item No.	Exam Method	From Dancet No.	Ctatus	Domosto
Size - Sched ISI Dwg. No.	item No.	Method	Exam Report No.	Status	Remarks
CLASS 1, VALVES VALVES-SYSTEM LEAKAGE TEST	B-P B15.70	VT-2	1Q800-07-129	SAT	Pressure testing accomplished by various ISI instructions.
N/A N/A 305-NO-DWG					
CLASS 1, PR COMP REACTOR VESSEL-SYSTEM LEAKAGE TEST N/A N/A 305-NO-DWG	B-P B15.10	VT-2	1Q800-07-130	SAT	Pressure testing accomplished by various ISI instructions.
1T23-017-EM CTMT EXT INTERFACE WITH ANNULUS POUR AZ 0-360 N/A N/A 305-503-139	E-C E4.11	VT-1	1042-07-097	SAT	Some surface rust, but no signs of recent moisture intrusion and no significant material loss.
1T23-017-EC ANNULUS CONCRETE SURFACE BENEATH E32 LEAKOFF LINES N/A N/A 305-503-139	L-A L1.12	VT3C	1042-06-0002	SAT	This report addresses "suspect areas" of concrete surface annulus pour @ 340 degrees 598'4" beneath the E32 leakoff line. Area was previously reported on 6/9/99 (rpt 1042-99-104) and 11/13/02 (rpt 1042-02-0013). No increased degradation noted.

Table Notes:

- Status codes are "SAT" or "UNSAT" for visual and surface examinations. For ultrasonic examinations they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications.
 The above exam listing is all the inservice examinations that were performed during Cycle 11 or RFO11 in accordance with Perry's Inservice Examination Plan (ISEP).

Friday, July 13, 2007 Page 54 of 54



First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P0059-0011
Second Interval, Third Period, First Outage
(RFO11)
Cycle 11 and RFO11 Preservice Examinations

Prepared by: Date: 1/15/2907

Reviewed by: Thorway Loga ANII Date: 7/16/07

Descr	iption of C	t Examined omponent ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
	041B-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0012	SAT	Examined 12 replacement hydro-nuts; heat number 623A.
10"	N/A	305-605-102					
	041B-B OLTING, 12	EACH	B-G-2 87.50	VT-1	1042-07A-0005	SAT	Examined 12 replacement studs; heat number K745.
10"	N/A	305-605-102					
	041D-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0006	SAT	Examined 12 replacement studs; heat number K745.
10"	N/A	305-605-104					
	041D-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0013	SAT	Examined 12 replacement hydro-nuts; heat number 623A.
10"	N/A	305-605-104					
	041F-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0002	SAT	Examined 12 replacement studs; heat number K745.
10"	N/A	305-605-102					
	041F-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0020	SAT	Examined 12 replacement hdro-nuts; heat number 623A.
10"	N/A	305-605-102					
	041K-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0019	SAT	Examined 12 replacement hydro-nuts; heat number 623A.
10"	N/A	305-605-102					
	041K-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0003	SAT	Examined 12 replacement studs; heat number K745.
10"	N/A	305-605-102					
	047B-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0009	SAT	Examined 12 replacement studs; heat number K745.
10"	N/A	305-605-102					
	047B-B OLTING, 12	EACH	B-G-2 B7.50	VT-1	1042-07A-0015	SAT	Examined 12 replacement hydro-nuts; heat number 623A.
10"	N/A	305-605-102					

ID of Component Examined Description of Component Size - Sched ISI Dwg. N	ASME Category ASME Io. Item No.	Exam Method	Exam Report No.	Status	Remarks
1B21-F047D-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0004	SAT	Examined 12 replacement studs; heat number K745.
10" N/A 305-605-10	4				
1B21-F047D-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0014	SAT	Examined 12 replacement hydro-nuts; heat numbers 590A (6) and 623A (6).
10" N/A 305-605-10	4				
1B21-F047F-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0011	SAT	Examined 12 replacement studs; heat numbers K745 (8) and OG84 (4).
10* N/A 305-605-10	2				
1B21-F047F-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0021	SAT	Examined 12 replacement hydro-nuts; heat number 590A.
10" N/A 305-605-10	2				
1B21-F047H-B SRV BOLTING, 12 EACH	B-G-2 87.50	VT-1	1042-07A-0017	SAT	Examined 12 replacement hydro-nuts; heat number 590A.
10" N/A 305-605-10	4				
1B21-F047H-B SRV BOLTING, 12 EACH	B-G-2 87.50	VT-1	1042-07A-0010	SAT	Examined 12 replacement studs; heat number OG84.
10" N/A 305-605-10	4				
1B21-F051B-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0008	SAT	Examined 12 replacement studs; heat number OG84.
10" N/A 305-605-10	2				
1B21-F051B-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0018	SAT	Examined 12 replacement hydro-nuts; heat number 590A.
10" N/A 305-605-10	2				
1B21-F051D-B SRV BOLTING, 12 EACH	B-G-2 B7.50	VT-1	1042-07A-0007	SAT	Examined 12 replacement studs; heat number OG84.
10" N/A 305-605-10	4				
1B21-F051D-B SRV BOLTING, 12 EACH	8-G-2 B7.50	VT-1	1042-07A-0016	SAT	Examined 12 replacement hydro-nuts; heat number 590A.
10" N/A 305-605-10	4				

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Descri	ption of C	t Examined omponent	ASME Category ASME	Exam			
Size -	Sched	ISI Dwg. No.	Item No.	Method	Exam Report No.	Status	Remarks
1B21-H HYDRA	0445 JULIC SNUB	BER	F-A F1.SN	VT-3	VT-07-0639	SAT	Preservice exam of replacement snubber Serial No. 04616533/10
2"	N/A	305-605-106					
1B21-H HYDRA	0449 JULIC SNUB	BER	F-A F1.SN	VT-3	VT-07-0642	SAT	Preservice exam of replacement snubber Serial No. 04616533/017
2"	N/A	305-605-106					
1B21-H HYDRA	0450 ULIC SNUB	BER	F-A F1.SN	VT-3	VT-07-0640	SAT	Preservice exam of replacement snubber Serial No. 03615883/020
2"	N/A	305-605-106					
1B21-H HYDRA	0471 JULIC SNUB	BER	F-A F1.SN	VT-3	VT-07-0641	SAT	Preservice exam of replacement snubber Serial No. 30400009/017
2"	N/A	305-605-106					
1B21-S HYDRA 1B21G: 26"	ULIC SNUB	BER MPL 305-605-103	F-A F1.SN	VT-3	VT-07-0531	SAT	Preservice exam of replacement snubber Ser No. 043.
		BER, PUMP 3G7064B 305-602-104	F-A F1.40	VT-3	VT-07-0545	SAT	Preservice exam of replacement snubber Ser No. 057.
		BER, PUMP 3G7065B 305-602-104	F-A F1.40	VT-3	VT-07-0581	SAT	Preservice exam of replacement snubber Ser No. 063.
		BER, PUMP 3G7066B 305-602-104	F-A F1.40	VT-3	VT-07-0532	SAT	Preservice exam of replacement snubber Ser No. 026.
1E12-H MECH <i>F</i>	5002 NICAL SNU	IBBER	F-A F2.SN	VT-3	VT-07-0019	SAT	Preservice exam of replacement snubber Ser No. 4285
12"	N/A	305-642-138					
1E51-H HYDRA	0073 JULIC SNUB	BER	F-A F1.SN	VT-3	VT-07-0643	SAT	Preservice exam of replacement snubber Ser No. 04616533/011
6 "	N/A	305-631-108					

ID of Component Examined Description of Component Size - Sched ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks	
1E51-H0074 HYDRAULIC SNUBBER	174 F-A VT-3 VT-07-0644		SAT	Preservice exam of replacement snubber Ser No. 04616533/001		
6" N/A 305-631-108						
1G33-H0144 MECHANICAL SNUBBER (AUGMENTED HEPIBER) 6* N/A 305-671-104	F-A aug F5.0	VT-3	VT-07-0631	SAT	Preservice exam of replacement snubber Ser No. 27529.	
1G41-H0051 MECHANICAL SNUBBER	F-A F3.SN	VT-3	VT-07-0026	SAT	Preservice exam of replacement snubber Ser No. 26019.	
10" N/A 305-655-107						

Table Notes:

Status codes are "SAT" or "UNSAT" for visual and surface examinations. For ultrasonic examinations they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications.
 The above exam listing is all the preservice examinations that were performed during Cycle 11 or RFO11 due to repair, replacement, or modification activities.

APPENDIX B

"CYCLE 11 & RFO11 NIS-2/NR-1 FORMS"

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1

1813-052

NIS-	2/NR-1 OWNE	ER'S REPOR					ENTS				
PNPP No. 9308		equired by the rifey	/ISIONS on a	16 ASMIL C.	006 000	OI1	NQI-1741				
1. Owner: _	FIRS	TENERGY CORP.		-		Date <u>5/9/07</u>					
: 		Road, Perry, Ohio				Sheet 1 of					
2. Plant: _		lear Power Plant (I				Unit <u>1</u>					
_	10 Center I	Road, Perry, Ohio	44081			see attached cha (Repair Org. P.O. N					
2 Work Bort	formed Dur. EIDOTE	NEDOV Aluadoor On		DNDD		Tuna Cada Sumi	tal Ciama ND				
J. WUIKFEII	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No.										
		SHICE TODGE, FOLLY,	Onio 7700	<u>,,,</u>		Expiration Date					
4 Identificati	on of System: 1B1	3 Reactor and Inte	ernals			- r· ·					
	able Construction Co			^SS 1		1074 Editi	~~				
5. (a) Applica	ible construction of		TION/DIVISIO			19 <u>/4</u> Eulu	on				
WINT	ER 19 75	Addenda Code	Case(s) <u>N</u>	1207, 1361-2	2, 1728,	1644-4, N272					
(b) Const	tion Code upod f				4074	\\\7E	иA				
(D) Consu	ruction Code used f	or repairs, modifica	ations, or r	epiacemeni		ition Addenda	Code Case(s)				
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:		NONE Addenda	N/A Code Case(s)				
(d) Applic	able Edition of Secti	ion XI Utilized for F	Repairs, M	odification, o			Code Caccio,				
19 <u>89</u>	19 <u>N/A</u>	Addenda N/A	<u> </u>								
(e) Desigr	n Responsibilities <u>F</u>		le Case(s)								
6. Identification	on of Components F	Repaired, Modified	, or Replac	cement Com	nponents						
Name of	Name of	Manufacturer Cosial No.	Nat. Board	Other	Year	Repair, Replacement,	ASME Code				
Component	Manufacturer	Serial No.	No.	ID.	Built	or Modification	Stamped				
PIPING SYSTEM	GENERAL ELECTRIC	1B13	64077	1B13D008	1984	REPLACEMENT	YES				
	 										
			 	 !			-				
			ļ								
							-				
L			<u> </u>								
7. Description	of Work: Replaced	l 14 control rod dri	ves and 1"	cap screws	s see atta	chment for details.	·				
	1 1 h.d					57 04					
	ucted: Hydrostatic 1032 psi Tes	:- [] Pneumat st Temperature 14		Nominal Ope Jegrees F	-	ressure- ⊠ Othe Case(s) <u>N/A</u>	er- 🗌				
11033410	<u>002</u> poi	it remperature _	<u> +2</u>	legices i	,	Odse(s) 1971					

PAGE 2 OF 31

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 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 9 may , 20 07 Signed FENOC-PNPP Mul Jil 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 10, 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 arising from or connected with this inspection.
Date 5/10, 20 67 Signed Thorner Board (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

NIS-2/NR-1 1B13-052

3/ PAGE 3 OF <u>35 デア</u>ア

1. Owner:	FIRSTENERGY CORP			
	10 CENTER ROAD, PERRY, OH 44081			
2. Plant:	Perry Nuclear Power Plant (PNPP)	Unit <u>on</u>	e	
	10 Center Road, Perry, Ohio 44081	WO # See (Repair Or	e below. g P.O. No., e	etc.)
3. Work Pe	rformed By:FIRSTENERGY NUCLEAR OPERATING_COMPANY (PNPP)	Type Cod	e Symbol :	Stamp <u>NR</u>
	10 Center Road, Perry, Ohio 44081	Authorizat	lion No	33
		Expiration	Date <u>9/28</u>	8/08
4. Identifica	tion of System: 1B13 REACTOR AND INTERNALS			
5. (a) Appli	cable Construction Code: ASME SECTION III NB	_,1974	_ Edition	
<u>WIN</u>	TER 19 75 Addenda Code Case(s) N207,1361-2,1728,1	644-4,N272		
(b) Applic	table 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 Component	S		

WO NUMBER	CORE LOCATION	NEW CRDM S/N	NUMBER OF CAPSCREWS REPLACED	HT NUMBERS OF NEW CAPSCREWS
200079521	22-27	A5054	8	R707
200079533	46-27	A5510	8	TRR
200079535	50-19	A4531	8	TRR
200079530	42-15	A3730	_ 8	R707
200079527	34-47	A5472	8	R707
200079526	42-51	A5183	8	TRR
200010200	50-23	A5427	8	255A
200079532	46-15	A3895	8	TRR
200195248	42-27	A5122	8	R707
200079534	46-43	A5684	8	TRR
200195247	54-23	A2571	8	TRR
200195249	42-39	A3498	8	(1) TRR (6) 13358 (1) R707
200079515	10-35	A4502	8	(7)255A (1)R707
200174378	42-31	N/A	8	255A
200079536	50-27	N/A	8	R707
200174377	14-19	N/A	8	R707
200174379	26-35	N/A	8	TRR
200260599	50-31	A5416	0	N/A
200079537	50-31	N/A	8	TRR

Sheet 1 of 2

				REPORT NO. P0059-0:
			22.30005.22.000	
,				Sheet 1 of
e 2/2 (2)	•			
· ī			REPORT FOR NUCLEAR P. : ASME Code Rules, Sectio	ART AND APPURTENANCE
	V3 tedr	uned by the Provision of the	MOME COME Rules, Seedo	, Div. 1
l. (a) <u>Maa</u> i	electured by Genera	1 Electric Company	Castle Hayne Rd.,	Wilmington, N.C.
(b) Mena	stactured for General	1 Electric Company	San Jose, Californ	nia (NEBG)
L identific	ation-Certificate Holder's	Sertal No. of PartA541	5Nar*1	Bd. No
(a) Coo	structed According to Dr	768E534G00	Drawing Propared by	D. L. Paterson
41. B		. Control Rod Dri	ve, Model #7RDB144I	0G001
(b) Des	cription of Part Inspects	1974	Addenda date W'75, C	N207 1361-2
. Remarks	Standard part	(Mrief description of s	r. Hydrostatically	y tested at 1820 ps:
	A 70-A - 7 1	-6 -b		
	* Total number	or sheers - 4		
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This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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List ether internal er external pressure with coincident temperature when applicable.

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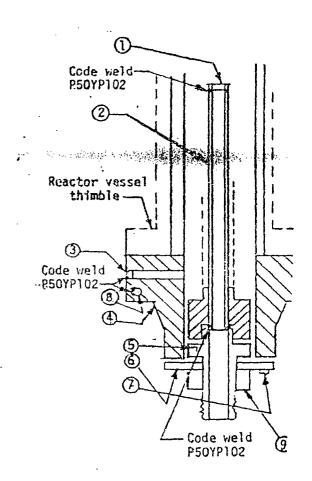
Sheat 2 of 2

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

l,	(a) Manufactured by	General Electric Company, Castle Hayna Rd., Wilmington, N.C. UManne and address of NFT Cortificate Holder:
	(b) Manufactured for	General Electric Company, San Jose, California (NEEG)
2.	Mentification-Certificate	e Holder's Serial No. of Part
		diag to Drawing No. 768F534G001 Drawing Prepared by D. L. Patarson
		t laspected Control Rod Drive, Model #7RDB144DG001
	(a) Annillankin Affice	ode: Section III, Edition 1974., Addenda date W'75, Case No. 1361-2 Class 1
	(e) ubbitcaste vone	Ode: Section III, Edition and Section Case 1500 Case 150

1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D

- 2. Indicator Pipe 16689313P1
 SA312-TP316
 3/4 sch 40 reamless 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 11485122P2 SA182-F304 1" thick x 5.0 00 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

007

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

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 6 0F 31 As required by the Provision of the ASME Code Rules Section 111 D

1. (*) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. ***Inner and addraw of NT** Credition Medical** (b) Manufactured for General Electric Company, San Jose, California (NEBG) ***Inner and addraw of NC Credition Medical** (c) Constructed According to Drawing No. 168E3346001 (a) Constructed According to Drawing No. 168E3346001 (b) Description of Part Inspected Control Rod Drive, Model #7RDB144D6001 (c) Applicable ASME Code: Section III, Edition 1974, Addends date W*75, Case No. 1361-2 Class 1 3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Other description of section III, Edition 1974, Addends date W*75, Case No. 1361-2 Class 1 *** Total number of sheets - 2 *** Total number of S		
2. Identification-Certificate Holder's Serial No. of Part A2730 Nav'l Bd. No. (**) Constructed According to Drawing No. A2730 Drawing Prepared by D. L. Poterson (**) Constructed According to Drawing No. 768E5346001 Drawing Prepared by D. L. Poterson (**) Constructed According to Drawing No. 768E5346001 Drawing Prepared by D. L. Poterson (**) Constructed According to Drawing No. 768E5346001 Drawing Prepared by D. L. Poterson (**) Construction of Part Inspected Control Rod Drive, Model #7RDB144D6001 N207 (**) Applicable ASME Coder Section III, Edition 1974 Addenda date M' 75 Case No. 1361-2 (**) Associated Part for use with Reactor. Hydrostatically tested at 1820 psi. (**) Estandard part for use with Reactor. Hydrostatically tested at 1820 psi. (**) Total number of sheets - 2 ** Total nu	1.	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NPT Certificate Holder)
2. Identification-Certificate Holder's Serial No. of Part A3730 Nat'l Bd. No. (a) Constructed According to Drawing No. 768E5346001 Drawing Prepared by D. L. Poterson (b) Description of Part Inspected Control Rod Drive, Model #7RDB144D6001 (c) Applicable ASME Coder 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. (Brist description of syrtics for which compound was designed) * Total number of sheets - 2 ** Total		(b) Manufactured for General Electric Company, San Jose, California (NEBG)
(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Poterson (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001 (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Casc No. 1361-2 Class 1 3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi. (Died description of service for which component was designed) * Total number of sheets - 2 ** Total number of sheets of sheets - 2 ** Total number of sheets - 2 ** Total number of sheets - 2 ** Total number of sheets of sheets - 2 ** Total number of sheets - 2 ** Total number of sheets of sheets - 2 ** Total number of sheets of sheets - 2 ** Total number of	,	
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(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W175, Case No. 1361-2 Class 1 Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 ps1. (Brief description of service for which component was designed) * Total number of sheets - 2 *		(a) Constructed According to Drawing No. Drawing Prepared by D. D. 180213011
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W175, Case No. 1361-2 Class 1 Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 ps1. (Brief description of service for which component was designed) * Total number of sheets - 2 *		(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
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* Total number of sheets - 2 * Total number of sheets of sheets of sheets of sheets of numbers of sheets of numbers of sheets of numbers of sheets of sheet	3.	Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
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 of the appurtenance is no included in the component Design Specification and Stress Report.) Pare 7-11 19 80 Signed GE, NEPD-WMD-QA Part Physical Certificate of Authorization Expires June 16, 1981 Certificate of Authorization Expires June 16, 1981 Certificate of Authorization Expires CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No.18345 Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No.18345 CERTIFICATE OF SHOP INSPECTION 1, 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 7-11 Partial Data Report on 7-11 Partial Data Report on 7-12 Partial Data Report on 15 and person 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 8-10 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 on his employer makes any were analy, expressed on impliced, connection with dis inspection. Design for the person of t		(Brief description of service for which component was designed)
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 appurtnances is responsible for furnishing a separate Design Specification and Stress Report if the appurtnance is not included in the component Design Specification and Stress Report. Pate 7-11 19 80 Signed CE, NEPD-WMD-QA ONPT Certificate Holder Duth of 1981 Certificate of Authorization Expires June 16, 1981 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif Reg. No.18345 Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif Reg. No.18345 CERTIFICATE OF SHOP INSPECTION 1, 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 pant of a pressure vessel described in this Partial Data Report to 1980 State of North Carolina and employed by Department of Labor of State of North Carolina have inspected the pant of a pressure vessel described in this Partial Data Report to 1980 State of North Carolina and employed by Department of Labor of State of North Carolina have inspected the pant of a pressure vessel 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.		* Total number of sheets - 2
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^{*}Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is \$\frac{\partial PA^* \times \quad \times \quad \times \quad \times \quad \q

This form (E000 40) may be obtained from the Order Dept., ASME, 345 E. 47th St. New York, N.Y. 10017 (10/77)

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If Postweld Heat-Treated.

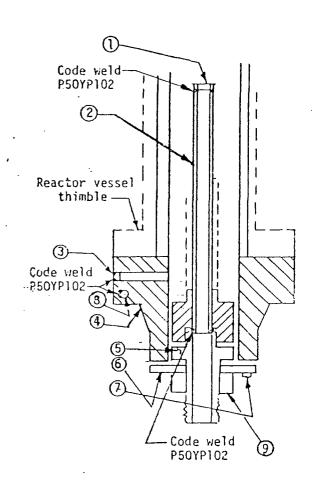
List other internal or external pressure with coincident temperature when applicable.

Sheet 2 of 2 smith of 35

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 7 OF 3/ 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.
	(b) Manufactured for	General Electric Company, San Jose, California (NEBG)
	(6) (12.1412-1412-1412-1412-1412-1412-1412-14	(Name and address of N Certificate Holder for completed nuclear component)
2.	ldentification-Certifica	te Holder's Serial No. of Part A3730 Nac'l Bd. No
	(a) Constructed Acco	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of Pa	Control Rod Drive, Model #7RDB144DG001
		N207 Code: Section III Edition 1974 Addenda date W'75 Case No. 1361-2 Class 1

- 1. Cap 16689274P1 (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
- 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 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.

Sheet 1 of 2, 2 10 01= 35

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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1. (a) Manufactured by General Electric Company, (Name	Castle Hayne Rd., Wilmington, N.C.
(b) Manufactured for General Electric Company,	
(Name and address of	N Certificate Holder for completed auclear component)
2. Identification-Certificate Holder's Serial No. of Part A3-	498Nat'l Bd. No
(a) Constructed According to Drawing No. 768E534G001	Drawing Prepared by D. L. Peterson
(b) Description of Part Inspected Control Rod Driv	ve, Model #7RDB144DG001
(c) Applicable ASME Code: Section III, Edition 1974, A	
3. Remarks: Standard part for use with Reactor	r. Hydrostatically tested at 1820 psi.
(Brief description of se	rvice for which component was designed)
* Total number of sheets - 2	
	responsibility of the NPT Certificate Holder for parts. An NPT Certifiate Design Specification and Stress Report if the appurtenance is not.)
	APPURTENANCE (when applicable)
GE, NEPD-WMD-QA, Cast	tle Hayne Rd., Wilmington, N.C.
22A5556, Rev. 1 Stress analysis report on file at GE, NEPD-WMD-QA, Cas 22A4912, Rev. 2	stle Hayne Rd., Wilmington, N.C.
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 Callf Reg. No 18345
	SHOP INSPECTION
and/or the State or Province of North Carolina and of State of North Carolina have Partial Data Report on 7-1 and belief, the NPT Certificate Holder has constructed this part in By signing this certificate, neither the Inspector nor his ing the part described in this Partial Data Report.	inspected the part of a pressure vessel described in this
Date	NC 723, PA WC1766, OHIO.

(10/77)

This form (E000.40) may be obtained from the Order Debt., ASME, 345 E. 47th St., New York, N.Y. 10017

[&]quot;Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 85% x 14%, (2) information in items 1-2 on this. Dess Report in network up and 10 to a to be the size is 1-2 on this. Dess Report in network up acen beet, and (1) rath there is numbered and number of such as the size of 3. "Remarks".

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If Postweld Heat-Treated,

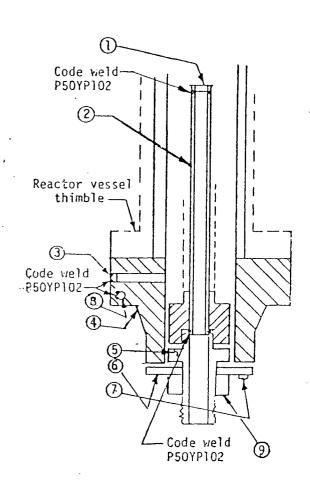
List other internal or external pressure with coincident temperature when applicable

Sheet 2 of 2 3 1 1 1 1 35

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 9 0 = 3) As required by the Provision of the ASME Code Rules, Section III, Div. 1

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ı.	(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)
	(5)	(Name and address of N Certificate Holder for completed nuclear component)
2.	identification-Certifica	ite Holder's Sertal No. of Part A3498Nat'l Bd. No
	(a) Constructed Acco	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of Pr	Control Rod Drive, Model #7RDB144DG001
		N207
	(c) Applicable ASME	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 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 114B5122P2 SA182-F304 l" 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 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.

Sheet 1 of 2777 12 0F 36

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

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

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W 73, Case No. Class 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 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 appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtena included in the component Design Specification and Stress Report.) Date 11-1 19.79 Signed GE, NEPD-WMD-QA UNPT Certificate of Authorization Expires GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. Design information on file at 22A5556, Rev. 1 Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif. Reg. No.18. CERTIFICATE OF SHOP INSPECTION	
(b) Manufactured for General Electric Company, San Jose, California (Name and address of Northless Holder to compised nuclear component) 2. Identification-Certificate Holder's Serial No. of Part A2571	
Name and address of Northlines Holder for Compileted ACS71 Name Na	
2. Identification-Certificate Holder's Serial No. of Part (a) Constructed According to Drawing No. 768E534G001 (b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001 (c) Applicable ASME Code: Section III, Edition 1974, Addendadate W'75, Case No. 1361-2 (c) Applicable ASME Code: Section III, Edition 1974, Addendadate W'75, Case No. 1361-2 (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 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 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 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 Component was designed) * Total number of sheets - 2 We certify that the statements made in this report are not the responsibility of the NPT Certificate Holder for parts. An N included in the component Design Specification and Stress Report.) * Total number of sheets - 2 Date	
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Control Rod Drive, Model #7RDB144DG001 (c) Applicable ASME Code: Section III, Edition 1974 , Addends date W'75 , Case No. 1361-2 Class 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 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 N included in the component Design Specification and Stress Report of the appurtenance is responsible for furnishing a specification and Stress Report of the appurtenance included in the component Design Specification and Stress Report. Date 11-1 19.79 Signed GE, NEPD-WND-QA approximate Design Specification No. NPT N-1151 Certificate of Authorization Expires June 16, 1981 Certificate of Authorization No. NPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file at GE, NEPD-WND-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Califf Reg. No.18 Stress analysis report certified by B. N. Sridhar Prof. Eng. State Califf Reg. No.18 CERTIFICATE OF SHOP INSPECTION	
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 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 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 N incate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report included in the component Design Specification and Stress Report.) Date 11-1 19 79 Signed GE, NEPD-WMD-QA (MPT certificate of Authorization Expires June 16, 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. 22A4912, Rev. 2 Design specifications certified by B. N. Sridhar Prof. Eng. State Calif. Reg. No. 18 Stress analysis report certified by B. N. Sridhar Prof. Eng. State Calif. Reg. No. 18 CERTIFICATE OF SHOP INSPECTION	
(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 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 * Total	
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CERTIFICATE OF SHOP INSPECTION	345
CERTIFICATE OF SHOP INSPECTION	345
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspeand/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 Partial Data Report on 11-1 1979, and state that to the best of my knowl 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, conling the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, conling the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, conling the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer than the inspection.	this ledge
Date 11-1 19 79 NC 723, PA WC1766, OH10. Inspection's Signature Commissions National Board, State, Province and No.	

*Supplemental sheets in form of Itats, sketches or drawings may be used provided (1) size is 89% a 13%, (2) information in Itams 1-2 on this Data Repet is included in each sheet, and (2) cash sheet is not unabsent and number of sheet is necessarily in them 2.5 Remarks."

(10/77) This form (E000 40) may be obtained from

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

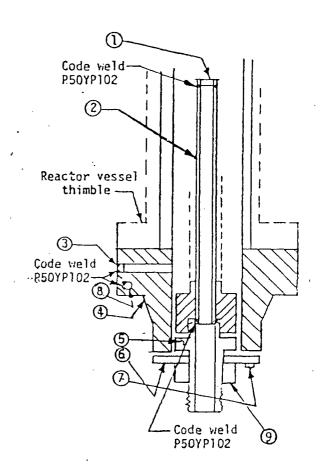
lte	ns 4-8	Incl. to be con	mpleted for si	ngle wall	ressels, 12	chers of jac	keied vessel	s, or shells of h	est exchange	ers.
4.	Shell;	Macercal(Kind &	T.S Spec. No.) (MI	T	ominal hickness pecified)	Corri in. Allo	osion wancein.	0iaft	in. Length.	ft, in
5.	Seams:	Long	н	I.T.'		_ R.T		_ Efficiency	- · · - · · ·	_ 7
		Girth	}	I.T.'		_ R.T		. No. of Courses	:	
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	(a)								·	·
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7.	Jacket	Closure:		··· /			, if bolled, descr		·	
		(Desc	ribe as ogee und	iweld, bar, e	tc. If bar give	e dimenssons	, if bolled, descr		Weight	
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о.	Design	pressure			psi at				ір. от	°F
ten	s 9 and	10 to be com	pleted for tub	e sections						
9.	Tube Si	heers: Station	ary. Material_	(Kind & Spe	Di:	Subject to	pressure)	knessin. /	\ttachment	(Welded, Bolted)
10.	Tubes:	Material		O.D	in. Thi	ckness	inches or gage	. Number	Тур	<
										(Str. or U)
ten	s 11-14	incl. to be c	ompleted for i	inner cham	bers of jac	keced vesse	ls, or channe	ls of heat excha	ngers.	
				No	minal	Corre	sion			
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	Je -1113.	Long	···	• • • • • • • • • • • • • • • • • • • •	***					
		Girth	н	.r.'	- 	_ R.T		No. of Courses		
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								Hemispherical		Side to Press.
							Apra Angle		Diemeter	(Conv. or Conc.)
		, bottom, ends								
	(b) Chai	nnei vable bolis ii	sed (a)			(5)		her fastening		
		2012, 2011, 3		(0	· — —	(()				
										(1-1b
4.	Design	pressure ¹	<u></u>		psiat					°F
tem	s below	to be complet	red for all ves	sels where	applicable	e.				
,	Safaru 1	/alve Outlets:	. V.,		2142	1.				
	Nozzles		vumber		3126	\	ocation			
		(Intet,						Rein	Jorcement	
	P urpose	Drain	Number	Dia, or Size	Тур	Mete	riel Thi	ckness M	eterial	How Atteched
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	Outlet,	on Manholes								
	Outlet,	on Manholes s: Handhole		Siz	c	Loca				

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. [] 0F 3]

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

7	
ı.	(s) 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
	N207 (c) Applicable ASME 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
- 2. Indicator Pipe 16689313P1 SA312-TP316 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dia.
- 3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D
- 4. Flange 919D610P1 (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 XM-19 ASME SA479 3.0 0D x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 OD x 1.75 ID
- 7. Cap Screw 117C4516P2 SA193-86 6 ea. 1/2 dia. on 4 1/8 bolt circle
- 8. Plug 175A7961P1 SA182-F304 0.38 thick x 1.307 dia.



CONTROL ROD DRIVE DWG - 768E534

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

55/2 HIDE 35

Sheet 1 of 2 /2 oF 31

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

		P. K. D. Drekt	
. (a) Manufactured by General	Electric Company, Ca	astle Hayne Rd., Wilmi	ington, N.C.
(b) Manufactured for General	Electric Company, Sa	in Jose, Calliornia (F	YEBG)
. Identification-Certificate Holder's Se			wipowin)
(a) Constructed According to Draw	768E534G001	Drawing Prepared by D.	L. Peterson
(b) Description of Part Inspected	Control Rod Drive,	Model #7RDB144DG001	N207
(c) Applicable ASME Code: Section	•	•	1361-2 1
Remarks: Standard part for		Hydrostatically test	
* Total number of	sheets - 2		
We certify that the statements made runs to the rules of construction of the applicable Design Specification and the Holder for appurtenances is responsible Holder for appurtenances in the component Design Specification in the component Design Specification and the component Design Specification of the Research of the Component Design Specification of the Component Design	te ASME Code Section III. d Stress Report are not the respective for furnishing a separate difficution and Stress Report.)	consibility of the NPT Certificate Design Specification and Stress	Holder for parts. An NPT Certif- Report if the appurtenance is not
8/26/ 19 81	Signed GE, NEPD-WMD	8y W	Medenme
rtificate of Authorization Expires	September 15, 1981	Certificase of Authorizatio	a No. NPT N-1151
Design informacion on file at GE,			
22A5556, Rev. 2 Stress analysis report on file at 22A4912, Rev. 2	GE, NEPD, San Jose,	Calif.	
Design specifications certified by	B. N. Sridhar	Prof. Eng. State	Calif Reg. No.13345
Stress analysis report certified by	B. N. Sridhar	Prof. Eng. State	Calif Reg. No.18345
	CERTIFICATE OF SH	OP INSPECTION	
I, the undersigned, holding a valued/or the State or Province of No.	id commission issued by the rth Carolina and empl	National Board of Boiler and Flowed by Department of L.	Pressure Yessei Inspectors abor
State of North Care Partial Data Report on and belief, the NPT Certificate Holder By signing this certificate, neithing the part described in this final be liable in any manner for with this inspection.	have ins 8/2 has constructed this part in accepter the inspector nor his empl Partial Data Report. Fur	pected the part of a pressure 6/ 19 81 and state the ordance with the ASME Code Sec over makes any warranty, expi- thermore, neither the insp	to the best of my knowledge too HI. tessed or implied, concern- tessed or implied, concern- tessed or implied
Sace 8/26/ El Maniell		00.5	WC1766, OHIO OC1
pplemental sheets in form of liers, sketches or	drawings may be used provided (1) a	ire is 35," s 11", (2) information is ite	
B Report is included on each ineet, and (3) each ineed is numb	oved and sumber of specials recorded in item 2,	firmanti"	
77)	form (E00040) may be obtained	from the Order Door. ASME. nas.	BURDLE OF THE SECOND STORY

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				. F(ORM N-2 (6	oack)			-
i	Izems 4-8 Incl. to be con	mpleted for s	ingle wall	vessels, j	eckets of ja	ckered vessels	, or shells of he	at exchange	rs.
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	5. Sezmu Long				R.T		Efficiency		_ %
	Ginh		н.т.¹		R.T		No. of Courses		
	6. Heads: (a) Material					• •	ــــــ ك	-	
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	(b)				_	Other facts	-nine		
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7	7. Jacket Closute: (Descr	ib+ ss agce an	d=eld,ber,	etc. If bergiv	e dimensions	, if bolted, descri	be or sketch)		
							•	eight	
8	. Design pressure ²	1250		psi s	٠	575		p. of	
_	rms 9 and 10 to be comp								
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10 	Floating Tubes: Material ma II-14 incl. to be co Shell: Material (Kind & 5p Seams: Long Girth Heads (a) Material Location (a) Top, bottom, ends (b) Channel If removable, bolts use Design pressure	mpleted for T.S. -c. No.) (Min H Thickness	O.D. Inner chas N T Of Range 3: T. 1 Crown Redius	Di in. Th beers of jac coninal hickness becified) T.S. Knuckie Radius	kerrd veasure in Allos R.T. Elliptical Ratio	Thiclinches or gage. els, or channal organization organi	Number	T.S. Flac Describe or e	Side to i
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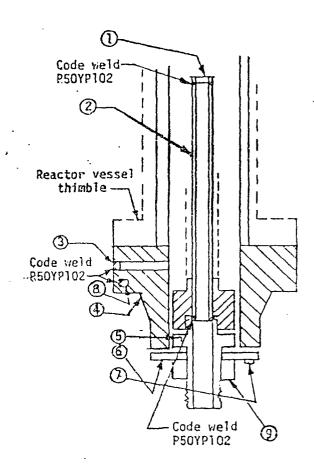
Sheet 2 of 2

13 OF 31

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

_	
l.	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C. (Name and address of NFT Certificats Holder)
	(b) Hanufactured for General Electric Company, San Jose, California (NEBG)
	(Name and Advance of H Contribute Holder for completed nuclear component)
ī.	identification-Certificate Holder's Serial No. of Part A3895
	(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 Coder 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 159A1176P1 SA182-F304 1/4 thick x 0.812 0D
- 4. Flange 919D610P1 (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 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 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 137C5934F1 XM-19 SA479 1.30 thick x 2.62 dia.

00125

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 14-0F-31 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. (Hame and address of NPT Certificate Holder) (b) Manufactured for General Electric Company, San Jose, California (NEBG) (Name and address of N Certificato Holder for completed nuclear component) 2. Menufication-Certificate Holder's Serial No. of Part _____A5684 Nat'l Bd. No. (a) Constructed According to Drawing No. 768E534G001 D. L. Peterson _Drawing Prepared by_ Control Rod Drive, Model #7RDB144DG001 (b) Description of Part Inspected. (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 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 appurenance as defined in the Code conforms to the rules of construction of the ASHE 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 SI GE MEED SMD OPPE CITATIONS N NPT N-1151 September 15, F981 ... Certificate of Authorization No. Certificate of Authorization Expires... CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file of GE, NEPD-WAD-DA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Stress sanlysis report on file at GE, NEPD, San Jose, Calif. 22A4912, Rev. 2 Prof. Eng. Scare Calif Reg. No. 18345 Design specifications certified by B. N. Sridhar Stress analysis report certified by B. N. Sridhar 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 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 8/31 1981, and state that to the best of my knowledge Partial Data Report on 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 may warranty, 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. 3/31 19 8! N.C. 723, PA.WC1766, DHIO National Board, State, Province and No.

(10/77)

This form (E00040) may be obtained from the Order Dept., ASME, J45 E. 47th St., New York, N.Y. 10017

00578

-	i. Shell: Material	7.S.	N i	ominel nickness	Corn in Alla	osion wancein.	Dia	fc, i	n. Length	ft, ir
	i. Shell: Material									
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	Ginh	H	I.T.1		R.T		No. of C	ourses_		<u></u>
6.	. Hends: (a) Materi	ial		_ T.s		(b) Materi	al		T.S	
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	(a)									
	(b)					Other fas	tenine .			
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7.	. Jacket Closure:	ecribe se ogee and				Uhallad desc	ibe or abai	ch)		
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٥.	. Design pressure _			ber w	·		•			
lest	ms 9 and 10 to be co	empleted for tube	e sections							
	· · · · · · · · · · · · · · · · · · ·									
9.	. Tube Sheers: Scaci	ionary. Material_	(Kind & Jos	Di:	3. (Subject to	Thi	ckness	_in. At	tachment)	Welded, Balted)
10.	Floa Tubes: Macerial _	ting. Material	O.D.	in. Thi	ickness	inches	. Numb	= t	Туре	
										(\$tr. or U)
Ites	ms 11-14 incl. to be Shell: Moterial	completed for	noor cham	vers of isc	kered vess	els. or chean	is of hea	exchan	gers.	
12.	Seams: Long	Н.	.T.1		_ R.T		. Efficies	су		_7.
	Seams: Long	н.	т.'		R.T		No. of C	our 3.5 3 _		
		н.	т.'		R.T		No. of C	our 3.5 3 _		
	Girth	н.	.T.1	T.S	R.T	(b) Materia	No. of C	our 3.5 3 _	T.S	Sida to Press
	Girth Heads (a) Materia	IH.	Crown Radius	T.S Knucki+ Radius	Elliptical Ratio	(b) Materia Contest Apex Angle	No. of C	ourses _	T.S Flox Diemeter	Sida to Press
	Girth Honds (a) Materia Location (a) Top, bottom, et	Thickness	Crown Redius	T.S Knucki+ Radius	Elliptical Ratio	(b) Materia Contest Apex Angle	No. of C	ourses _	T.S Fint Diemeter	Side to Press (Conv. or Conc
	Girth Honds (a) Materia Location (a) Top, bottom, e	Thickness	Crown Redius	T.S Knucki+ Radius	Elliptical Ratio	(b) Materia Contest Apex Angle	No. of C	herical lus	T.S. Flac Diameter	Side to Press (Conv. or Conc ettech sketch)
	Girth Honds (a) Materia Location (a) Top, bottom, et	Thickness	Crown Redius	T.S Knucki+ Radius	Elliptical Ratio	(b) Materia Contest Apex Angle	No. of C	herical lus	T.SFine Diameter	Side to Press (Conv. or Conc entech sketch)
13.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts	Thickness Thickness used (a)	Crown Radius	T.S Knucki+ Radius	Elliptical Ratio	Contest Apax Angle	No. of C	herical lus	T.ST.S	Side to Press (Conv. or Conc ettech sketch)
13.	Girth Honds (a) Materia Location (a) Top, bottom, et	Thickness Thickness used (a)	Crown Radius	T.S Knucki+ Radius	Elliptical Ratio	Contest Apax Angle	No. of C	herical lus	T.ST.S	Side to Press (Conv. or Conc ettech sketch)
13.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts	Thickness Thickness ands used (a)	Crown Redius	T.S. Knuckie Redius	R.T	Contest Apax Angle	No. of C	herical lus	T.ST.S	Side to Press (Conv. or Conc ettech sketch)
13.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure ms below to be comp	Thickness Thickness a used (a)	Crown Redius (b	Knuckie Redius	Elliptical Ratio	Contest Apex Angle	No. of C	ning (Charpy at temp.	T.S. Flat Diemeter Describe or a right Impact . of	Side to Press (Conv. or Conc ettech sketch)
13. 14. Item 15.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure ² ms below to be comp	Thickness Thickness a used (a)	Crown Redius (b	Knuckie Redius	Elliptical Ratio	Contest Apex Angle	No. of C	ning (Charpy at temp.	T.S. Flat Diemeter Describe or a right Impact . of	Side to Press (Conv. or Conc ettech sketch)
13. 14. Item 15.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure ms below to be comp	Thickness Thickness a used (a)	Crown Redius (b	Knuckie Redius	Elliptical Ratio	Contest Apex Angle	No. of C	ning (I) Drop We Charpy at temp.	T.S. Flat Diameter Describe or desight Impact of	Side to Press (Conv. or Conc ettech skatch)
13. 14. Item 15.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure! ms below to be comp Safety Valve Outle Nozzles:	Thickness I Thickness I used (a) Sieted for all ves Ets: Number	Crown Redius (b	T.S Knuckie Radius psi ai ai applicabi	Elliptical Ratio	Contest Apex Angle Ocation	No. of C	ning (I) Drop We Charpy at temp.	T.S. Flat Diemeter Describe or ceight Impact of	Side to Press (Conv. or Conc ettech skatch)
13. 14. Item 15.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure ms below to be comp Safety Valve Outle Nozzles: Pwpose (Inlet,	Thickness Thickness a uxed (s) Sected for all ves Cost: Number	Crown Redius (b	T.S. Knuckie Rediue Psi al	Elliptical Ratio (c)	Contest Apax Angle O O Ocation	No. of C	ning (I) Drop We Charpy at temp.	T.S. Flat Diameter Describe or desight Impact of	Side to Press (Conv. or Conc ettech sketch)
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13.	Girth Hends (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure ms below to be comp Safety Valve Outle Nozzles: Purpose (Inlet, Outlet, Deain)	Thickness Thickness I used (s) Dieted for all ves Ets: Number	Crown Redius (b	T.S. Knuckie Redius Psi al	Elliptical Ratio	(b) Material Contest Apax Angle	No. of Call Hemisp Rec ther fasce	ning	T.S. Flat Diemeter Describe or a eight Impact of torcement	Side to Press (Conv. or Conc ettech sketch) ft-
13.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolts Design pressure ² ms below to be comp Safety Valve Outle Nozzles: Purpose (Inlet, Outlet, Design)	Thickness Thickness a uxed (s) Setzed for all ves Number	Crown Redius (b) (sels where	T.S. Knuckie Rediue Psi al	R.T	Contest Apax Angle Ocation ocation oriat Th	No. of C	herical lue ning	T.S. Flat Diemeter Describe or eight Impact of	Side to Press (Conv. or Conc entech sketch) ft- o
13. 14. Item 15. 16.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolzs Design pressure ms below to be comp Safety Valve Outle Nozzles: Purpose (Inlet, Outlet, Drain) Inspection Manho Openings: Handh Threse	Thickness I Thickness I used (s) Sieted for all ves Ets: Number Number ies, No oles, No sied, No ied, No ied, No	Crown Redius (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (e) (d) (e) (e) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	T.S Knuckie Radius psi al psi al psi al Typ	Elliptical Ratio (c) ic Loc: Loc: Loc: Loc: Loc: Loc:	Contest Apex Angle Ocation Ocation Ocation Ocation Ocation Ocation	No. of Call Hemisp Rad ther faste	ning (I) Drop We Charpy at temp.	T.S. Flat Diemeter Describe or desight Impact of	Side to Press (Conv. or Conv. ettech skatch) ft-
13. 14. Item 15. 16.	Girth Heads (a) Materia Location (a) Top, bottom, et (b) Channel If removable, bolzs Design pressure ms below to be comp Safety Valve Outle Nozzles: Purpose (Inlet, Outlet, Drain) Inspection Manho Openings: Handh Threse	Thickness I Thickness I used (s) Sieted for all ves Ets: Number Number ies, No oles, No sied, No ied, No ied, No	Crown Redius (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (e) (d) (e) (e) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	T.S Knuckie Radius psi al psi al psi al Typ	Elliptical Ratio (c) ic Loc: Loc: Loc: Loc: Loc: Loc:	Contest Apex Angle Ocation Ocation Ocation Ocation Ocation Ocation	No. of Call Hemisp Rad ther faste	ning (I) Drop We Charpy at temp.	T.S. Flat Diemeter Describe or desight Impact of	Side to Press (Conv. or Conc ettech skatch) ft-
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15 OF 31

Sheet 2 of 2

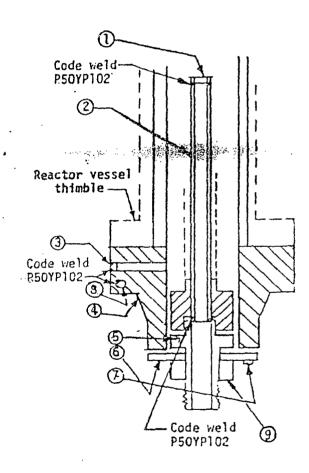
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

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

DEL		
1.	(a) Manufactured by	General Electric Company, Castle Hayne Rd., Wilmington, N.C.
		(Name and address of NPT Cortificate Holder)
	(b) Manufactured for	General Electric Company, San Jose, California (NEBG)
		(Hame and address of it Certificate Holder for completed auclear component)
		AECOA.
7	identification-Codificat	e Holder's Serial No. of Part A5684 Nat'l Bd. No.
	AND CHARLES	The state of the s
		D 7. Peterson
	(a) Constructed Acro	rding to Drawing No. 768F534G001 Drawing Prepared by D. L. Peterson
	(") COLLEGE ! LE CO	The state of the s
		A A A A A A A A A A A A A A A A A A A
	(b) Description of Pa	R laspected Control Rod Drive, Model #7RDB144DG001
		1074 U175 1007 RESS
	(c) Applicable ASME	Code: Section III, Edition 1974., Addenda dare W'75 Case No. 1361-2 Class 1
	(-,, ,, ,,,,,,,	, od 1, b 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D
- 2. Indicator Pipe 166B9313P1 SA312-TP316 3/4 sch 40-seamless pipe U-132 Wall Pine 1888 1.065 max. dia.
- 3. Plug 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 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 OC579 XM-19 SA479 1.30 thick x 2.62 dia.

	• • •	1.3.120
	ORM N-3 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASME Code Rules, Section III, Div. 1	14
t. (a) Mas	factored by General Electric Company, Castle Hayne Rd., Wilmington, N.C.	
	lactured for General Electric Company, San Jose, California (NEBG) (Hame and address of N Cartificate Helder for completed meclour company)	
ldentific	etton-Certificate Holder's Serial No. of Part A5427 Nor'l Bd. No.	· ·
(a) C∝	structed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Patarson	
(b) Des	cription of Pare Inspected Control Rod Drive, Model #7RDB144DG001	
(c) App	icable ASME Code: Section III, Edition 1974, Addenda deta W [†] 75, Case No. 1361-2	1
Remerk	Standard part for use with Reactor. Hydrostatically tested at 1820 psi.	
	* Total number of sheets - 2	
to	- (1 Obt	
Service in	1/23 19 81 Committee GB, HEZD-WAD-QA Northorization Pagines September 15, 1981 Certificate of Authorization No. 1197 N-1151	
Section 1	Authorization Papires September 15, 1981 Certificate of Authorization No. 1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	
niffcate o	Authorization Papiers September 15, 1981 Certificate of Authorization No. MPT N-1151	e e e e e e e e e e e e e e e e e e e
Design in 22A555 Seresu an	Aschorization Espires September 15, 1981 Certificate of Aschorization No. MPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) OFF SERVICE OF SERVICE OF SERVICE Hayne Rd., Wilmington, N.C.	
Design in 22A555 Seress sn 22A491 Design sp	CERTIFICATION OF DESIGN FOR APPURTENANCE (was applicable) CERTIFICATION OF DESIGN FOR APPURTENANCE (was applicable) CE, NEPD-WMD-QA, Cantle Hayne Rd., Wilmington, N.C. Rev. 2 Typis report on file at CE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. Rev. 2 Rev. 2 Rev. 2 Rev. 2 Recifications certified by B. N. Stidhar Prof. Eng. State Callif Reg. No.183	345
Design in 22A555 Seress sn 22A491 Design sp	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Cantle Hayne Rd., Wilmington, N.C. Rev. 2 Iyaia report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.	345
Design in 22A555 Seress sn 22A491 Design sp	CERTIFICATION OF DESIGN FOR APPURTENANCE (was applicable) CERTIFICATION OF DESIGN FOR APPURTENANCE (was applicable) CE, NEPD-WMD-QA, Cantle Hayne Rd., Wilmington, N.C. Rev. 2 Typis report on file at CE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. Rev. 2 Rev. 2 Rev. 2 Rev. 2 Recifications certified by B. N. Stidhar Prof. Eng. State Callif Reg. No.183	345
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Design in 22A555 Seress an 22A491 Design sp Seress and the seres are the	Authorization Profess September 15, 1981 Certificate of Authorization No. MPT N-1151 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Cantle Hayne Rd., Wilmington, N.C. Rev. 2 Typis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. Rev. 2 Trifications certified by B. N. Sridhar Prof. Eng. State Callif Reg. No. 182 Itysis report certified by B. N. Sridhar Prof. Eng. State Callif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION	345
Design in 22A555 Seress an 22A491 Design sp L, the and/or the series belief. By sign the shall be	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Cautle Hayne Rd., Wilmington, N.C. GE, Rev. 2 Rev. 2 Rev. 2 Rev. 2 Rev. 2 Recifications certified by B. N. Sridhar Prof. Eng. State Callif Reg. No. 183 CERTIFICATE OF SHOP INSPECTION CERTIFICATE OF SHOP INSPECTION CERTIFICATE OF SHOP INSPECTION CAUTH Carolina and employed by Department of Labor Late of North Carolina bave inspected due part of a pressure vessel described in the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. In the NPT Certificate, seither the Inspector for his employer makers any warranty, expressed or implied, concert described in this Partial Data Report. Furthermore, neither the Inspector nor his employed in part and part of a pressure vessel described in this partial Data Report. Furthermore, neither the Inspector nor his employed in the symment for any personal injury or property damage or a loss of any kind strains from concert damage or a loss of any kind strains from concert damage or a loss of any kind strains from concerts of the part of a pressure vessel or implied, concerts the symment for any personal injury or property damage or a loss of any kind strains from concerts or concerts.	345

	. Shell:	Material	T.S	T and Banga	lominal hickness Seculled	in. Allo	osion ≆ancein-	Dia	_ 11i	n. Length,	le
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								N	C		
٥.	. Heada:	(a) Material									
		Location		Ctema	Kmetie	Elliptical	Contcol	Hemis	phorical	Flat	Sido to
	(Top	, bottom, rado)	Thickness	Redius	Redius	Ratio	Apes Angle	Ra	diup	Diameter	(Cent.
											
	(b)	vable, bolts ut			-		0-1				•
	it remo	ARDIE, DOLLE AL	(Mets	rtal, Spee. N	fe., T.S., Siz	e, Number)	Other fast	cuing	(Dee	cribe or otto	ch sketch)
7.	Jacket	Closure:	·		~. <u></u>					 	·
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8.	Design	btezzate ₃	1430				32.3	_°F	at temp.	. of	
1		10	l-4+ 1 (4-1								
	as y and	10 to be comp	leted for tube	# sections							
9.	Tube Sh	seers: Stations	ry. Material_		Dia		Thic	kacss_	is. At	tachment	
				(Kind & Spe	e. No.)	(Subject to	presquee)			•	(Welded, Bo
		Floating	. Material		Dia	·	Thic	kness_	is. Att	achment_	
10.	Tubess	Material	····	O.D	in, Thi	ckness		. Numb	er	Тур	·
			 -								(37. 8
		•									_ ~
		Girth		т.'		_R.T		No. of C	owrees_		
		•		т.'		_R.T		No. of C	owrees_		
	Heada (Gircha) Material		T.1	T.S	R.T	_ (5) Material	Na. of C	outses _	T.S	Side te
13.	Heada (Girtha) Material	Thickness	Crown Redlus	T.S. Knuckie	R.T	(b) Material Conscet Apex Angle	Na. of C	owrses	T.SFlat	Side te (Conv. o
13.	Heads ((a) Top,	Girtha) Material ocation bortom, ends	Thickness	Crown Radius	T.S Knuckie Rediue	R.T	(5) Material Consces Apen Angle	No. of C	ourses _	T.SFlat	Side te (Conv. o
13.	Heads ((a) Top,	Girtha) Material ocation bortom, ends	Thickness	Crown Radius	T.S Knuckie Rediue	R.T	(5) Material Consces Apen Angle	No. of C	ourses _	T.SFlat	Side te (Conv. o
13.	Heads ((a) Top,	Girtha) Material ocation bactom, ends_	Thickness	Crown Radius	T.S Knuckie Rediue	R.T	. (5) Material Consces Apen Angle	No. of C	Nencul Bus	T.SFlat	Side to (Conv. o
13.	Heada ((a) Top, (b) Chent If remova	Girth a) Marcrial ocation borrom, ends _ nel _ sble, bolts use	Thickness d(a)	Crown Radius	T.S. Knuckie	R.T	Canical Aprel Angle Oth	No. of C	ning Drop Wei	T.SFlot Disconter eacribe or a	Side to (Conv. or
13.	Heada ((a) Top, (b) Chent If remova	Girtha) Material ocation bortom, ends	Thickness d(a)	Crown Radius	T.S. Knuckie	R.T	Canical Aprel Angle Oth	No. of C	ning Drop Wei	T.SFlot Dissector	Side to (Conv. or
13.	Heada ((a) Top, (b) Chen If remova	Girth	Thickness d(a)	Crown Redius	T.S. Knuckie Rediue	R.T	Canical Aprel Angle Oth	No. of C	ning Drop Wei	T.SFlot Disconter eacribe or a	Side to (Conv. or
13.	Heada ((a) Top, (b) Chen If remova	Girth a) Marcrial ocation borrom, ends _ nel _ sble, bolts use	Thickness d(a)	Crown Redius	T.S. Knuckie Rediue	R.T	Canical Aprel Angle Oth	No. of C	ning Drop Wei	T.SFlot Disconter eacribe or a	Side to (Conv. or
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13.	Heads ((a) Top, (b) Chen If remova Design p	Girth a) Marcrial contion bortom, ends nel sble, bolts use ressure o be completed	Thickness d (a)	Crown Redius (b)	T.S. Knuckie Rediue Psi at at applicable	R.T	Lib) Material Conscet Apex Angle Oth	Hemizo Rad	Actions.	T.SFlot Disconter sacribe or a sight appact of	Side to (Conv. or
13.	Heads ((a) Top, (b) Chen If remova Design p Safety Vi Nozzles:	Girth	Thickness d (a)	Crown Radius (b)	T.S. Knucule Redue Psi at at applicable	R.T		Hemison Rad	Across Drop Wei	T.SFlot Disconter sacribe or a sight appact of	Side to (Conv. or
13.	Heads ((a) Top, (b) Chen If remova Design p s below to Safety Va Nozzles:	Girth	Thickness d (a)	Crown Redius (b)	T.S. Knuckie Rediue Psi at at applicable	R.T		Hemizo Rad	Across Drop Wei	T.SFlot Disconter eacribe or e eacribe or e of	Side to (Conv. or
13.	Heads ((a) Top, (b) Chen If remova Design p Safety Vi Nozzles:	Girth	Thickness d (a)	Crown Radius (b)	T.S. Knucule Redue Psi at at applicable	R.T		Hemison Rad	Across Drop Wei	T.SFlot Disconter eacribe or e eacribe or e of	Side to (Conv. or
13.	Heads ((a) Top, (b) Chen If remova Design p Safety Vi Nozzles:	Girth	Thickness d (a)	Crown Redius (b)	T.S. Knuckie Radiue psi at applicable Type	R.T		Hemison Rad	Across Drop Wei	T.SFlot Disconter eacribe or e eacribe or e of	Side to (Com. o
13.	Heads ((a) Top, (b) Chen If remova Design p a below n Safety Va Nozzles: Purpose (Outles, 2)	Girth a) Marcrial ocation bortom, ends nel sible, bolts use ressure o be completed sive Ourlets:	Thickness d (a) 1 for all ves:	Crown Radius (b)	T.S. Knuckie Redue Reduckie	R.T	Canscel Apex Angle Oth	Hemizo Rad	Reinfo	T.S Flat Disconter excribe or a ight of	Side to (Com. o
13.	Heads ((a) Top, (b) Chen If remova Design p s below n Safety Va Nozzles: Purpose (Outles, O	Girth	Thickness d (a) 1 for all ves: Number	Crown Rodius (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	T.S. Knuckie Redue Reduckie	R.T	Canscel Apen Angle Oth Cation Thic	Hemizo Rad	Remosi dus Drop Wes Charpy i at temp.	T.SFlat Disconter secretar or a sight appact of	Side to (Conv. o
13.	Heads ((a) Top, (b) Chen If remova Design p s below n Safety Va Nozzles: Purpose (Outles, O	Girth a) Marcrial contion bottom, ends net sible, bolts use ressure o be completed sive Outlets: (Inter, roun) No n Mannoies, Handholes,	Thickness d (a) 1 for all ves: Number	Crown Redius (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	T.S. Knucule Redue psi at applicable Type	R.T	Cation	Hemizo Rad	Remosi dus Drop Wes Charpy i at temp.	T.SFlat Disconter secretar or a sight appact of	Side to (Conv. o
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Sheet 2 of 2

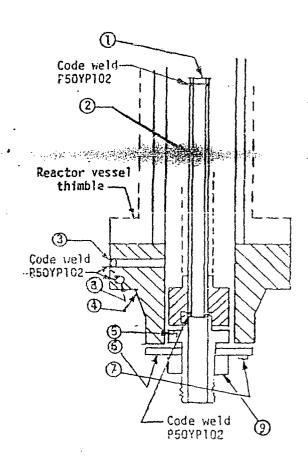
17 DF 31

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

1.	(a) Massisctured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(Plame and midress of PFT Corpdente incider)
	(b) Manufactured for General Electric Company, San Jose, California (NEBG)
	(Name and address of N Certificate Holder for completed nuclear component)
Ž.	identification-Certificate Holder's Serial No. of Fait A5427 Nat'l Bd. No.
	(a) Constructed According to Drawing No. 768E534GOD1 Drawing Prepared by D. L. Peterson
	• • • • • • • • • • • • • • • • • • • •
	(b) Description of Part Inspected Control Rod Drive, Hodal #7RDB144DG001
	(c) Applicable ASME Code: Section III. Edition 1974 Addenda date: W*75 Care No. 1361-2 Class 1

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD
- - 3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D
 - Flange 919D510P1 (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 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.

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CONTROL ROD DRIVE DWG - 768E534

9. Nut 13705934P1 XM-19 SA479 1.30 thick x 2.52 dia.

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constant same conserve and occur	18 0
	DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 18 01
As required by the Provis	non of the ASME Code Rules, Section III, Div. 1
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(a) Manufactured by General Electric Co	Ommany, Castle Hayne Rd., Wilmington, W.C.
(b) Manualactured for General Electric Co	ompany, San Jose, California (NEBG)
	and address of N Certificate Holder for completed nuclear consponents
Identification-Certificate Holder's Serial No. of Part	A5183 No
(a) Constructed According to Drawing No. 763E	534G001 Drawing Prepared by D. L. Pagarson
(b) Description of Part Inspected Control E	Rod Drive, Model #7RDB144DG001
(c) Applicable ASME Coder Section III, Edition 11	974 Addenda dote W'75 Case No. 1361-2 Class 1
Standard part for use with	Reactor. Hydrostatically tested at 1820 psi.
	ption of service (or which component was designed)
* Total number of sheets - 2	2
12/10 19 80 Signed GE,	1981 Certificate of jurborization No. NPT N-1151
CERTIFICATION OF DESI	GN FOR APPURTENANCE (when applicable)
	A. Castle Hayne Rd., Wilmington, N.C.
Design information on file at 22, 18275 and 22A5556, Rev. 1	A, carta dayne http://www.
	OA, Castle Hayne Rd., Vilmington, N.C.
•	har Prof. Eng. State Call Reg. No.13345
tress analysis report certified by 3. N. Srid	har Prof. Eag. State Calif Reg. No.18345
CERTIFIC	ATE OF SHOP INSPECTION
To the made meaned building a sulfit association to	and by the Verice of Bailer and December Versal Instrument
and/or the Scarz or Province of North Carolin	assued by the National Board of Boiler and Pressure Vessel Inspectors a and employed by Department of Labor
EState of North Carolina	have inspected the part of a pressure vessel described in this
artial Data Report on	12/10 19 80, and state that to the best of my knowledge his part in accordance with the ASME Code Section III.
By signing this certificates, seather the laspecto	r nor his employer makes my warrancy, expressed or implied, concern- Report. Furthermore, neither the inspector nor his employer
tall be liable in my manner for may personal in this this inspection.	neport. Furthermore, definer the inspector for his employer pury or property damage or a loss of any kind arising from or connected
12/10 30	
19	N.C. 723,PA.WC1766, OHIO
The water it	Commissions
Inspector's lignisture	National Board, State, Province and No.
pledicated shears in long of law, searches of Drawings that to de-	and provided to the letter (17) to a provided to the letter of the lette
	the second secon
71 That form (£000 40) r	mey be dottlined from the Direct Dept. ASTIE, 145 E. 47th St. New York N. f. 10017

FORM N.2 (Sect)

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	Sheil: \	Unterial (Kind	T.	S. Mis. of Serge	Vominal Thickness Specifies	Carro La Allo	-3100 -40Ce	Diait		
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	Shell: N Seama; Heada	Girth Material	T. A. Speer, No.)	S. (Min. of Reruge H.T.) H.T. Crown Reduce	Vominal Thickness Specifies Specifies T.S. Xnucrie Reduce	R.T. R.T. Cilionical Ratio	JI Materia Jonical April Angle	Efficiency	T.S.	Side to Press
	Sheil: N Seama; Heada a) Too,	Unterial	T. A Sect. No.)	Crown Radius	Vorunal Thickness Specifies T.S. Xnucxie Redue	R.T	Di Materia Dinical	Efficiency		Side to Press. Conv. or Conc.
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	Shell: V Seama; Heada a) Too, b) Chan	Girth a) Materia Location bottom, crimel cole, poits	T. T	Crown Reduce	Vorunal Thickness Specifies T.S. Xnuckie Rediue	R.T	Di Materia Jonical Apra Angle	Efficiency	T.S. T.S. Discourse or el Weight	Side to Press. Conv. or Conc. (sech section)
	Shell: V Seama; Heada a) Too, b) Chan	Girth a) Materia Location bottom, crimel cole, poits	T. T	Crown Reduce	Vorunal Thickness Specifies T.S. Xnucxie Redue	R.T	Di Materia Jonical Apra Angle	Efficiency	T.S. T.S. Discourse or el Weight	Side to Press. Conv. or Conc. (sech section)
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	Shell: \Seama; Heads a) Too, b) Chan If removi	Girth a) Material bottom, et	T. & Speer, Re.) i Tucknet id 3 used (s)	Crown Radius Radius	Vorunal Thickness Specifies T.S. Xnuckie Rediue	R.T	Di Materia Jonical Apra Angle	Efficiency	T.S. T.S. Discourse or el Weight	Side to Press. Conv. or Conc. (sech section)
713	Shell: V Seama: Heada a) Too, b) Chan If removi	Girth Document Document Document Document Document Document Document Document To be come	T. A Spee, Re.) I Tuckmends	Crown Reduce Wasters wn	T.S. Xouchie Redue	R.T	DI Materia Jonical Agent Angle	Efficiency	T.S. T.S. Discourse or el Weight	Side to Press Conv. or Conc tach seaton)
	Shell: V Seama: Heada a) Too, b) Chan If removi	Girth a) Material Girth a) Material bottom, citinel sole, poics oressure to be come	T. A Spee, Re.) I Tuckmends	Crown Reduce Wasters wn	Vorunal Thickness Specifies T.S. Xouckie Rediue	R.T	DI Materia Jonical Agent Angle	Efficiency	T.S. T.S. Discourse or el Weight	Side to Press Conv. or Conc tach section)
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n i	Shell: V Seama: Heads A) Too, D) Chan If removing Design of Desown Satety V Vozzles: Zumaav Duller: D	Girth	Tucknown and a seed fall seed for all seed f	Crown Reduce Vessels vn	Vominal Thickness Specifies T.S. Xucyie Redue 21 21 21 21 21 21 21 21 21 2	Carro Lacate Carro R.T. R.T. Citotical Ratio Citotical Ratio	DI Stateria Dinical Sora Angia Docation Docation	Dia_ft_ Efficiency	T.S. T.S. Tree Describe or el Weight pv Impact mo. of	Side to Press. Conv. or Conc tach seaton) first You Attached

19 OF 31

FORM 14-2 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.

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

(Name and address of N Corndense Holder for completed nucleus components

2. Identification-Certificate Holder's Serial No. of Part A5183 Nat'l Bd. No.

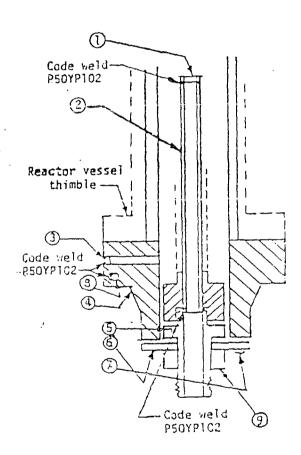
(a) Constructed According to Deswing No. 76825346001 Deswing Prepared by D. L. Peterson

(b) Description of Part Inspected Control Rod Drive, Model #TRDB144DG001

N207

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

- 7. Cap 16689274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD
- Indicator Pipe 15689313P1 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
- Flange 9190610Pl (719E474)
 SA182-F304
 3.37 thick x 9 5/8 00
 neck 1 1/15 thick x 5.0 00
 2.375 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 00 x 1.75 ID
- 7. Cap Screw 11704516P2 SA193-36 6 ea. 1/2 dia. on 4 1/8 bolt circle
- 8. Plug 175A7267P1 SA132-F304 0.38 thick x 1.307 dia.



CONTROL ROD DRIVE DWG - 768E534

3. Nut 1370593471 RM-19 SA479 ... 1.30 .thick x 2.62_dia.

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	5.40) Zif 1
	FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 20
	As required by the Provision of the ASME Code Rules, Section III, Div. 1
	,
200	(e) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(Plane and address of YET Certificate thistory
	(b) Marmiacound for General Electric Company, San Josa, California (NEBG)
4	IMPROR BING ADMITTAGE HOLDER for completed buckers components A 5510
	Identification-Certificate Holder's Serial No. of Part A5510 Nex't Bd. No.
•	(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson
,	(b) Description of Part Impacted Control Rod Drive, Model #7RDB144DG001
	N2U7 (c) Applicable ASME Coder 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 terride (or which component was designed)
•	A m. 1 1 1 6 1 7
	* Total number of sheats - 2
	Te certify that the statements made in this report are correct and this vessel part of appurtrusnice as defined in the Code co is 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 Cert
	Holder for appurtenences is responsible for furnishing a separate Design Specification and Stress Report of the appurtenence is ided in the component Design Specification and Stress Report.)
	$\int \int d^2 r dr$
) east	7/23 19 81 Street GE, NEPD-GED-QA By J. Stoudiamuri
) B23	7/23 19 81 Signed GZ, NEPD-UDD-QA By
ere	7/23 19 81 Signed GZ, NEPD-UED-QA By J. Mondamuri GET Commission Expires September 15, 1981 Certificate of Aschorization No. NPT N-1151
Dea Cert	7/23 19 81 Signed GZ, NEPD-UED-QA GET COMMENT COMMENT OF APPURTENANCE (when applicable) CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WAD-QA, Castle Hayne Rd., Wilmington, N.C.
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0	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-UMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- gress matyris report on file as GE, NEPD-UMD-OA, Castle Hayne Rd., Wilmington, N.C.
o S	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WID-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- GESS SELECTION OF GEST NEPD-WID-OA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- GESS SELECTION OF GEST NEPD-WID-OA, Castle Hayne Rd., Wilmington, N.C.
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o S	CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable) GE, NEPD-UND-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- 22A555
o S	CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable) GE, NEPD-UMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- 22A556
0 S	CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable) GE, NEPD-UMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- 22A556
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING information on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CEASING report on file as GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. CERTIFICATE OF SHOP INSPECTION I, the undersigned, boilding a valid commission issued by the Nextonal Board of Boiler and Pressure Vessel 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 struck Data Report on North Carolina have inspected the part of a pressure vessel described in this struck Data Report on the 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, occurred the laspector nor his employer makes my warranty, expressed or implied, concern-
Signal Si	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. Design information on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. DESIGN Report on file at GE, NEPD-WMD-OA, Castle Hayne R
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S S S S S S S S S S S S S S S S S S S	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castla Hayna Rd., Wilmington, N.C. 2245556, Rev. 2- Gess matyris report on file as GE, NEPD-WMD-QA, Castla Hayna Rd., Wilmington, N.C. 2245527, Rev. 2- Gessga recifications certified by 3. N. Sridhar Prof. Eng. State Calif. Reg. No. 13345 GERTIFICATE OF SHOP INSPECTION 1. the undersigned, bolding a velid 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 State of North Carolina have inspected the part of a pressure vessel described in this serial Data Report on Tipe Holder has constructed this part in accordance with the ASME Code Section III. Sy signing this certificate, posither the Inspector on this employer neither the Inspector on this employer and part of sections of implications of the liable in any manner for any personal injury or property damage of a loss of any kind arising from a connected the his inspection.
S S S S S S S S S S S S S S S S S S S	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- GERMS and the GERMS applicable Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- GERMS and the GERMS applicable Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2- GERMS and the GERMS applicable Hayne Rd., Wilmington, N.C. 22A556, Rev. 2- GERMS applications certified by 3. N. Stidhar Prof. Eng. State Calif. Reg. No. 13345 GERMS and year apport certified by 3. N. Stidhar Prof. Eng. State Calif. Reg. No. 13345 GERMS and year apport certified by 3. N. Stidhar Prof. Eng. State Calif. Reg. No. 13345 GERMS and the New Year and the New Year and Pressure Vessel Laspectors 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 serial Data Report on 1981, and state that to the best of my knowledge and belief, the NOTE criticate 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 wartanty, expressed or implied, concernant the part described in this Partial Data Report. Furthermore, neither the Inspector nor his amplicyted the his inspection. N.C. 723, PAWC1756, OHIO
S S S S S S S S S S S S S S S S S S S	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-WMD-QA, Castla Hayna Rd., Wilmington, N.C. 2245556, Rev. 2- Gess matyris report on file as GE, NEPD-WMD-QA, Castla Hayna Rd., Wilmington, N.C. 2245527, Rev. 2- Gessga recifications certified by 3. N. Sridhar Prof. Eng. State Calif. Reg. No. 13345 GERTIFICATE OF SHOP INSPECTION 1. the undersigned, bolding a velid 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 State of North Carolina have inspected the part of a pressure vessel described in this serial Data Report on Tipe Holder has constructed this part in accordance with the ASME Code Section III. Sy signing this certificate, posither the Inspector on this employer neither the Inspector on this employer and part of sections of implications of the liable in any manner for any personal injury or property damage of a loss of any kind arising from a connected the his inspection.
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S. S	CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable) GE, NEPD-IMD-QA, Castle dayme Rd., Wilmington, N.C. 22A5556, Rev. 2- 22A5566, Rev. 2- 22A556
Signal Si	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GE, NEPD-IMD-QA, Castle dayne Rd., Wilmington, N.C. 22A5556, Rev. 2- 22A5566, Rev. 2- 22A5666, Rev. 2- 22A5666

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١,	Hends /	Girth	Fucures	T.'	T.S. Kaucule Reduce	R.T	Of Material Concess April Angle	Efficiency	T.S Flor Diameter	Side to Press. 'Canv. or Conc.
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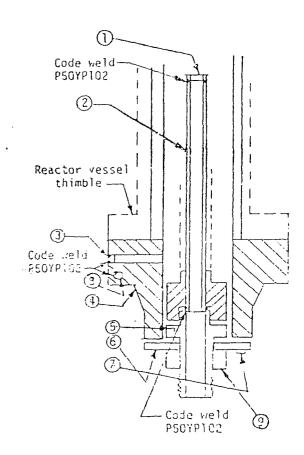
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FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES.

As required by the Provision of the ASME Code Rules, Sect	on III	. Div	١
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	T. C. P. T.	
1.	(a) Manufactured by_	General Electric Company, Castle Havne 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)
2.	Identification-Certifica	te Holder's Serial No. of PartA5510Nat'l Bd. No
	(a) Constructed Acco	ording to Drawing No. 168E534G001 Drawing Prepared by D. L. Peterson
		Control Rod Drive, Model #7RDB144DG001
		N207 Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1

- 7. Cap 16689274F1 (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. dfa.
- 3. Plug 159All76Pl
 SAl32-F304
 1/4 thick x 0.812 0D
- 4. Flange 9150610P1 (719E474) SA182-F304
 3.37 thick x 9 5/8 0D neck ! 1/16 thick x 5.0 0D
 2.875 ID
- 5. Base 137C5311P1 XM-19 ASME SA479 3.0 UD x .884 ID
- 6. Ring Flange 11485122P2SA182-F304I" thick x 5.0 00 x 1.75 ID
- 7. Cup Screw 11704516P2SA193-866 ea. 1/2 dia. on 4 1/8 bolt circle
- 8. Plug 175A7361P1 SA182-F304 0.38 thick x 1.307 dia.



CONTROL ROD DRIVE DWG - 7686534

9. Nut 137C5934P1 3.535 XM-19 SA479 1.30 thick x 2.62 dia.

57-1-24-01-35 Es. 22 0F31

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 Haine Rd., Wilmington, N.C.
	(b) Menufactured for General Electric Company, San Jose, California (NEBG)
	(Name and address of N Continguie Holdes for completed auctions components
۲.	Identification-Certificate Holder's Serial No. of Part A4502 Nat'l Bd. No.
	(s) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Paterson
	(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
	(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1
	. Standard part for use with Reactor. Hydrostatically tested at 1820 osi.
•	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
or.	We certify that the statements made in this report are correct and this vessel part or appurenance as defined in the Code co as to the rules of construction of the ASME Code Section III, e applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Cer
1	e abblets for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is uded in the component Design Specification and Stress Report.)
	/1
	- 7/23 1981 Signed GE, NEPD-WMD-QA By
	Control of 15 1001
er	tificate 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.
	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2
5	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Stress manysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2
5	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Gress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
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: :	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. Design information on file at
3	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by 3. N. Sridhar Prof. Eng. State Calif. Reg. No.13345 Stress analysis report certified by 3. N. Sridhar Prof. Eng. State Calif. Reg. No.13345 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 State of Province of North Carolina and employed by Department of Labor
	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Stress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by 3. N. Sridhar Prof. Eng. State Calif. Reg. No.13345 CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission usued by the National Board of Boiler and Pressura 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
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1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A5556, Rev. 2 Gress analysis report on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by 3. N. Sridhar Prof. Eng. State Cellic Reg. No.13345 GERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressura Vessel Inspectors and/or the State of Province of North Carolina and employed by Department of Labor 4. State of North Carolina have inspected the part of a pressure vessel described in this ratial Data Report on 1981, and state that to the best of my knowledge
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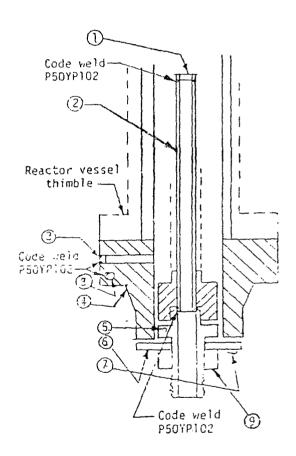
Sheet 2 of 2

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

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

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,	(a) Manufactured by	General Electric Company, Castle Hayne Rd., Wilmington, N.C.
٠.	(a) Manufactured by	(Name and address of NPT (eruffcase Holders
	(b) Maguiagound for	General Electric Company, San Jose, California (NEBG)
	(b) sandiacidred lot_	(Name and address of N Certificate Holder for completed nuclear component)
,	Identification Confifica	te Holder's Serial No. of Print A4502 Nar'l Bd. No.
4.		
		ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(*) Constructed Acco	eding to Drawing No. 1201.1344144 Drawing Prepared by
		Control Rod Drive, Model #7RDB144DC001
	(b) Description of Pi	N207
		Code: Section III, Edition 1974, Addenda date W'75, Case No. 1361-2 Class 1
	(c) Applicable ASME	Code: Section III, Edition, Addends date, C236,100.

- 1. Cap 16689274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 00
- Indicator Pipe 15629313P1 SA312-TP315 3/4 sch 40-seamless pipe 0.113 wall thickness 1.065 max. dfa.
- 3. Plug 159A1176P1 SA132-F304 1/4 thick x 0.812 00
- 4. Flange 9190610P1 (719E474) SA182-F3C4
 3.37 thick x 9 5/8 00 neck 1 1/16 thick x 5.0 00
 2.375 IO
- 5. Base 13705311P1 XM-19 ASME SA479 3.0 00 x .864 ID
- 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 00 x 1.75 ID
- 7. Cap Screw 1170451672SA193-866 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

3. Nut 13705934P1 MM-19 SA479 1.30 thick x 2.62 dia... (1078%

. 6	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 ASME Code Rules, Section III. Div. 1
L.	(a) Manufactured 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 Corallease Holder for completed suctear composes) Identification-Certificate Holder's Serial No. of Part A5472 Nac'l Bd., No.
	(a) Conscructed 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
3.	Remarks: Standard part for use with Reactor. Hydrostatically tasted at 1820 psi.
	(Botel description of service for which compensed wes designed)
	* Total number of sheets - 2
	Te carrify that the stratements made in this report are correct and this vessel part or appurtenance as defined in the Code co-
Unc.	He applicable Design Specification and Stress report are do to responsibility of the appartment of the appartment is a stress for experimence is responsible for furnishing a square Design Specification and Stress Report of the appartment is a linded in the component Design Specification and Stress Report.)
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€ ? %	reflicate of Amberization Empires September 15, 1981 Corrificate of Amberization No. NPT N-1151
C.	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) OZ, NEPD-W-D-QA, Castle Hayne Rd., Wilmington, N.C.
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GZ, NEPD-W-D-QA, Castla Hayna Rd., Wilmington, N.C. 22A5556, Rev. & Success applying report on file at GZ, NEPD-W-D-QA, Castla Hayna Rd., Wilmington, N.C.
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GZ, NEED-WED-QA, Casela Hayon Rd., Wilmington, N.C. 2245356, Rev. 2 Success analysis report on file at GZ, NEED-WED-QA, Casela Hayne Rd., Wilmington, N.C. 224017 Rev. 2
	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GZ, NEPD-WED-QA, Castla Hayna Rd., Wilmington, N.C. Design information on file of 22A5556, Rev. 2 Success analysis report on file of GZ, NEPD-WED-QA, Castla Hayna Rd., Wilmington, N.C. 22A4912, Rev. 2 Design specifications certified by 3. N. Sridhar Prof. Eng. State Calif. Res. No. 13345
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	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicables) GZ, NEPD-WED-OA, Castle Hayne Rd., Wilmington, N.C. Design information on file of 22A5556, Rev. 2 Suress analysis report on file of GG, NEPD-WED-OA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rev. 2 Design appendications certified by 3. N. Sridhar Prof. Eng. State Callif Res. No.13345 Stress analysis report certified by 3. N. Sridhar Prof. Eng. State Callif Res. No.13345 CERTIFICATE OF SHOP INSPECTION 1. the undersigned holding a ratio 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 Pertail Data Report on 7/23 and state that to the best of my knowledge they best or with the ASME Code Section III.
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-5.2	CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) GZ, NEPD-WD-QA, Castla Haypa 3d., Wilmington, N.C. 22A5556, Rev. 2 Series analysis report on file at GE, NEPD-WD-QA, Castla Hayna Rd., Wilmington, N.C. 22A6912, Rev. 2 Design specifications certified by 3. N. Sridhar Prof. Eng. Series Callif Reg. No.13345 CERTIFICATE OF SHOP INSPECTION 1. the undersigned holding a raild commission insued by the Nextonal Board of Boiler and Pressure Versel in spectors and/or the State of Province of Morth Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure versel described in this Partial Data Report on Ty23 1981, and state that to the best of my knowledge and belief, the NPT Certificate, oneither the inspector on his copology or makes my warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector one his amployee with the ASME Code Section III. Date 1723 1981 N.C. 723 PAWC1766 OHIO Next material streams

FORM N-2 (back)

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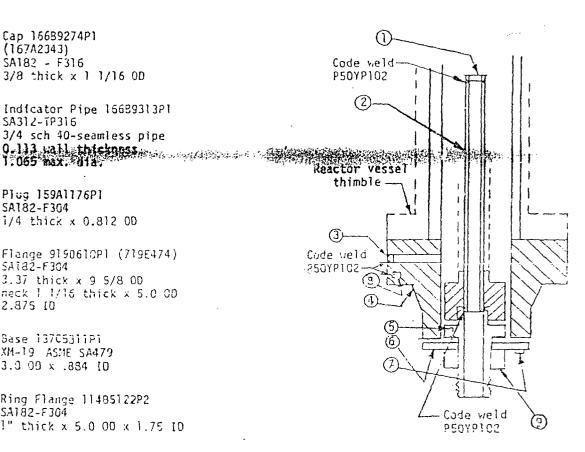
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Sheet 2 of 2

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

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i.	(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(Name and address of NPT Cerufficate Holder)
	(b) Manufactured for General Electric Company, San Jose, California (NEBG)
	Name and address of N Certificate Holder for completed nuclear components
2.	Identification-Certificate Holder's Serial No. of Part A5472 Nat'l Bd. No.
	(a) Constructed According to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of Part Inspected Control Rod Drive, Model #7RDB144DG001
	N207

- 1. Cap 166B9274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 0D
- 2. Indicator Pipe 16689313P1 SA312-TP316 3/4 sch 40-seamless pipe
- 3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 0D
- 4. Flange 9190610P1 (719E474) SA182-F304 3.37 thick x 9 5/8 00 neck 1 1/16 thick \times 5.0 OD 2.875 10
- 5. Base 13705311P1 XM-19 ASME SA479 3.0 00 x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 00 x 1.75 ID
- 7. Cap Screw 117C4516P2 38-86 SA193-86 5 pa. 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 - 7632534

9. Nut 1370593421 XM-19 SA479 1.30 thick \times 2.62 dia.

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. A	FORM N42 NPT CERTIFICATE HOLDERS' DATA REPORT FOR MUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASME Code Rules, Section III, Div. 1
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	(b) Negriconnic, General Electric Company, San Jose, California (NEEG)
2,	Name and address of N Certificate for completed section companies. A5122 Next 1 Bd. No.
	(a) Constructed According to Drawing No. 76825346001 Drawing Properted by D. L. Patarson
	Control Bod Drive, Hodel #72DB144DG001
	(c) Applicable ASME Codes Section III, Edition
	Remarks: Standard part for use with Resector. Sydrostatically tested at 1820 psi.
3.	(Brist descriptions of secretarious of secretarious washing encorposed was designed) * Total number of sheets - 2
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This form (ECCG 40) may be obtained from the Order Dept., ASME, 346 E. 47th St., New York, N.Y., 10017

FORM N-2 (back)

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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

L. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.

(Name and address of NPT Creditable Holder)

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

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

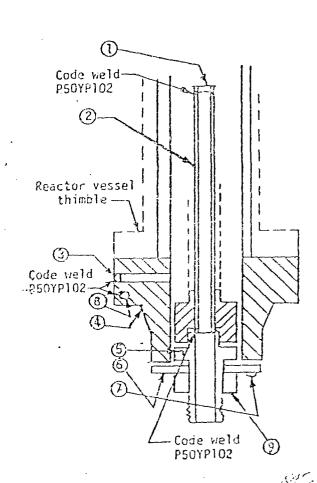
(Name and address of Neutralist Holder for completed auction composed auction co

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

AND THE RESIDENCE OF THE PARTY OF THE PARTY

- 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 00
- 4. Flange 9190610P1 (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 0D x .884 ID
- 6. Ring Flange 11485122P2 SA182-F304 1" thick x 5.0 00 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.

THE RESERVE OF THE PARTY OF THE



CONTROL ROD DRIVE DWG - 768E534

9. Nut 137C5934P1 (4,7.15) XH-19 SA479 1.30 thick x 2.62 dia. 57-32-0-35 Sheet 1 of 2 28 0p-31

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

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

	Canaral	Plaatria Com	nany Caat	la Harma Rd	Wilming	ton N.C	
. (a) Manufactured by	General I	TIACCITE COM	Name and addr	ses of NPT Cerubcate Hol	dor)		·····
(b) Menufactured for	General 8	Hectric Com	pany, San	lose, Californ	nia (NEB	G)	
		(Naume audi	A4531	nte Holder for completed	nocies comp	cment)	
Identification-Certificat	e Holder's Seri	al No. of Part	M4331	Ner'l	Bd. No		
(a) Constructed Accou	rding to Oc as i	768E53	4G001 Dr	swing Properted by	D. L.	Paterson	
(b) Description of Pau	rt Inspected _	Control Roo	d Drive, Mo	del #7RDB1440)G001		
(c) Applicable ASME	Codes Section I	II, Edicion 1974	4 , Addenda	d=eW'75_, c	250 No	361-2 Class	1
Remarker Standard	d part for	: use with Re	mactor. Hy	drostaticall;	tested	at 1820 p	si.
* Total s	number of	sheets - 2					
We certify that the state rms to the rules of consi- tion to the rules of consi- ble applicable Design Spe- ts Holder for appurtenan- cluded in the component	truction of the cification and cts is responsi Design Specif	r ASME Code Sect Stress Report are ible for furnishing fleation and Stres	tion III. not the responsi a separate Desi a Report.)	bility of the NPT Ce	ertificate Ho I Stress Rep	lder for parts sort if the appu	An NPT Cert
5/1	_ 19 <u>81</u> si	GE, NE	ZD-WAD-QA	8 _Y	Stru	denmui	
nificers of Auchorizatio	a Expires	June 16, 19	Certificate Holders 181	Certificate of Auti	orization N	o. NPT N-1	151
CI	ERTIFICATI	ON OF DESIGN	FOR APPUI	RTENANCE (whe	n applical	ile)	
				yne Rd., Wilm			
Design information on f	ile #						
22A5556, Rev. 1					mington	N.C.	
Stress analysis report of 22A4912, Rev. 2							
Stress analysis report o			ır	Prof. En	g. Stare <u>Ca</u>	lif Reg. N	.18345
Stress analysis report o 22A4912, Rev. 2 Design specifications o	certified by	B. N. Sridha	ır	Prof. En	g. Stare <u>Ca</u>	lif Reg. N	.18345
Stress analysis report o 22A4912, Rev. 2 Design specifications o	certified by	B. N. Sridha	ır		g. Stare <u>Ca</u>	lif Reg. N	.18345
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FORM N-2 (back)

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	Girch	Ь	l.T.'		R.T		No. of Courses		
	Heads: (a) Material_			T.S=		(b) Materi	al	T.S	
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	(b)								
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	Floating Tubes: Material		O.D	in. Th	ickness	inches or gage	Number	Type	
									(Str. or U)
	Shell: Material (Kind & Spe	ec. No.) (Min.	of Range Sp	ecified)				_	
							No. of Courses		
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{	b) Channel								
ŧ	f removable, bolta use	d (a)	(b)	(c)	Öa	her fastening	<u> </u>	itach sketch)
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r	.						Charpy	Impact	[[e]
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	afery Valve Outlets:	N imber		Size	Lo	estion			
N	lozzles:		-						
	Purpose (Inint, Outlet, Drain) No	200 001 [Na. or Size	Тур	• Mate	riel This		orgement serial	How Attached
									
	aspection Manholes,	No.	Siz	c	Locs	10n			
	penings: Handholes,	No No	Siz	c	Locat	ion			

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List other internal or external pressure with coincident temperature when applicable.

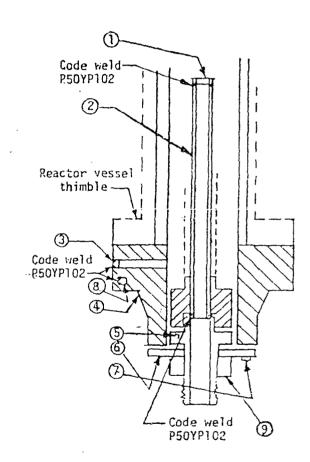
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FORM N-I NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. 29 OF 31

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

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ı.	(a) Manufactured by_	General Electric Company, Castle Hayne Rd., Wilmington, N.C.
	(b) Manufactured for	General Elactric Company, San Jose, California (NEBG)
		(Name and address of N Certificate Holder for commerced pacters component)
1,	identification-Certifica	te Holder's Serial No. of Part A4531 Ner'l Bd. No.
	(a) Constructed Acco	ording to Drawing No. 768E534G001 Drawing Prepared by D. L. Peterson
	(b) Description of P	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 16689274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/15 OD
- Indicator Pipe 166B9313P1 SA312-TP316
 3/4 sch 4G-seamless pipe 0.113 wall thickness 1.065 max. dia.
- 3. Plug 159A1176P1 SA182-F304 1/4 thick x 0.812 OD
- Flange 9190610P1 (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
- Flange 11485122P2SA182-F304thick 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 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.

· ·	5-7034-4
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCE As required by the Provision of the ASME Code Rules, Section III. Div. 1	30 OF
(a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.	
(b) Manufactured for General Electric Company, San Jose, California (NEBG)	
Maril Bd. No	
(a) Commenced According to Drawing No. 763E534G001 Drawing Prepared by D. L. Patarson	
Control Rod Drive, Model #7RDB144DG001	·
(c) Applicable ASME Codet Section III, Edition 1974, Addenda date W*75, Case No. 1361-2	<u>i</u>
Remarker Standard part for use with Reactor. Hydrostatically tested at 1820 p (Brief description of service for which component was designed)	si
* Total number of sheats - 2	
·	
12/30 19 80 Signed GZ, NEPD-WMD-QA INFT Corndons Holders June 16, 1981 Certificate of Authorization No. NPT N-1	151
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	1
GZ. MEPD-WAD-QA, Castla Hayna Rd., Wilmington, N.C.	
GZ, NEPD-WMD-QA, Castla Hayna Rd., Wilmington, N.C.	
GZ, NEPD-WAD-QA, Castla Hayne Rd., Vilmington, N.C. 22A5556, Rev. 1 Green malysis report on file at GZ, NEPD-WAD-QA, Castle Hayne Rd., Vilmington, N.C. 27A4912, Rev. 2	a:3345
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GZ, NEPD-WAD-QA, Castla Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 Green smalysis report on file at GZ, NEPD-WD-OA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rav. 2 Design specifications certified by B. N. Sridhar CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel 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 describ artial Data Report on 12/30 19 80 and state that to the best of my and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, omither the Inspector nor his ability of liable in any meaner for any personal injury or property damage or a loss of any kind arising from or	Inspectors ed in this knowledge
GZ, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 Green analysis report on file at GZ, NEVD-WMD-QA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rav. 2 Design specifications certified by B. N. Stidhar Prof. Eng. State Calling Reg. North Carolina Prof. Eng. State Calling Reg. North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described by signing this certificate holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, oeither the Inspector nor his complete on this part described in this Partial Data Report. Furthermore, neither the Inspector nor his could believe the any personal injury or property damage or a loss of any kind arising from or with this inspection.	Inspectors ed in this knowledge
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GZ, NEPD-WMD-QA, Castla Hayne Rd., Wilmington, N.C. 22A5556, Rev. 1 Green analysis report on file at GZ, NEVD-WMD-OA, Castle Hayne Rd., Wilmington, N.C. 22A4912, Rav. 2 Design specifications certified by B. N. Stidhar Prof. Eng. State Calling Reg. Normal analysis report certified by B. N. Stidhar Prof. Eng. State Calling Reg. Normal analysis report certified by B. N. Stidhar Prof. Eng. State Calling Reg. Normal State of North Carolina and employed by Department of Labor State of North Carolina have inspected the part of a pressure vessel described to the North Carolina have inspected the part of a pressure vessel described by signing this certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, seither the Inspector nor his comployer makes any varrancy, expressed or implied that the part described in this Partial Data Report. Furthermore, neither the Inspector nor his shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or with this inspection.	Inspectors ed in this knowledge i, concern- employer connected
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FORM V-2 (back)

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۵.	Heeds							No. of Courses		
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	-			_						·
	[f remo	vable, bolis		erial, Spec. :	to., T.3., Str	e, Number)	Other last	(De	scribe or exten	h sketch)
·.	Jacket	Clorure:								
	•	(0+)	cube sa oges ar	d weld, bar, e	tc. If bar giv	e dimensions,	if botted, descri		eight	
			1250				575	Charpy	Impact	ft-1
8.	Design	pressure3	1250		psi a	٠	7/7	°F 26 (@m)	o. of	°1
Cem	s 9 and	10 to be con	mpleted for tu	oe sections						
2.	Tube S	heers: Scacio	onary. Marerial		Di	a	Thic	knessin. A	ccachment	Walter of State of
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Q.	Tubes:	Macerial		_ O.D	in. Thi	ickness	or g*g*.	Number	1 y p c	(Sir. or U)
em:	11-14	inct. to be	completed for	inner cham	bers of :ac	keted vesse	is, or channel	s of heat exchai	izera.	
					minal	Carro				
1.	Shell:	Material (Kinda	T.ST.S	Tr	nickness	in, Allos	ance	Di 2 it	in. Length	frin
2.	Seams:	Long	}	1.7.'		_ R.T		Efficiency		_5
3.	Heads	(a) Macerial			. T.s		_ (5) Material		T.S	
		Lacation	Thickness	Crown Radius	Knuckte Rødius		Conscat Apræ Angle	Hemsopherscat Radius	Flat Dismeter	Side to Press. (Conv. or Conc.
			ds							
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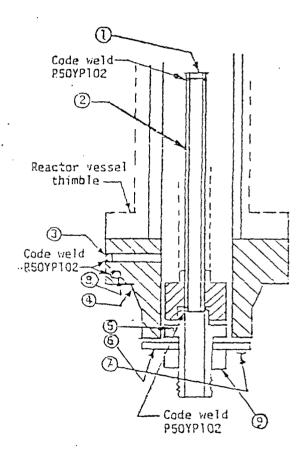
21/35 OF 35 5,501 31 OF 31

Sheet 2 of 2

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

L,	(a) Massafactured by General Electric Commany, Castle Havne Rd., Wilmington, N.C.	
	(b) Manufactured for General Electric Company, San Jose, California (NEBC)	
	(Name and address of H Certificate Holder for completed flucteur components	
I:	Identification-Certificate Holder's Serial No. of Part A5054 Nat'l Bd., No.	
	(a) Constructed According to Drawing No. 768E514G001 Drawing Prepared by D. L. Peterson	
	(b) Description of Pare Inspected Control Rod Drive, Model #7RDB144DG001	
-	(c) Applicable ASME Coder Section III, Edition 1974, Addenda date W'75 Case No. 1361-2 Class 1	

- T. Cap 16659274P1 (167A2343) SA182 - F316 3/8 thick x 1 1/16 OD
- 2. Indicator Pipe 16689313P1 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 OD
- 4. Flange 9190610P1 (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 00 x 1.75 ID
- 7. Cap Screw 117C4516P2SA193-866 ea. 1/2 dia. on 4 1/8 bolt circle
- 8. Plug 175A7961P15A182-F3040.38 thick x 1.307 dia.



CONTROL ROD DRIVE DWG - 768E534

9. Nut 13705934P1 M-19 SA479 1.30 thick x 2.62 dia.

1B21-366

NIS-2	/NR-1 OWNE	R'S REPOR quired by the Prov					ENTS
PNPP No. 9308 F		quired by the Flov	1510115 01 11				NQI-1741
1. Owner: _	FIR <u>S</u>	TENERGY CORP.				Date <u>5-8-07</u>	
_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:		ear Power Plant (F				Unit <u>1</u> 200259287	
3. Work Perfo	ormed By: <u>FIRSTE</u> 10 Ce	NERGY Nuclear Op enter Road, Perry			<u>.</u>	(Repair Org. P.O. I Type Code Symi Authorization No Expiration Date	bol Stamp <u>NR</u>
4. Identificatio	n of System: 182	l Nuclear Boiler Sy	ystem			· · · · · · · · · · · · · · · · · · ·	
5. (a) Applicat	ole Construction Co	ode: ASME Section NAME/SECT	10N/DIVISIO	N/CLASS		,19 <u>74</u> Editi	on
(b) Constru	uction Code used for			-	ts: <u>1974</u>	W/75 ition Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Edi	N/A Addenda	N/A Code Case(s)
. , . ,	ble Edition of Secti N/A 19 N/A		•	odification,	or Replac	ements:	
(e) Design	Responsibilities <u>Fl</u>		e Case(s)				
6. Identification	n of Components F	Repaired, Modified,	, or Replac	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	General Electric	1B21	64084	1B21 G7091	1985	Replacement	YES
7. Description	of Work: Replace:	snubber SN 275 (e	existing) w	/new snubb	er SN 04	3	
8. Test Conduc Pressure <u>N</u>	cted: Hydrostatic A psi Tes	Pneumat		Nominal Op legrees F	ŭ	ressure- Oth Case(s) <u>NA</u>	ei- 🗌

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: Functional Location number 1B21G7091 was originally installed as a General Electric
hanger number 1B21-G006-S107C as shown on drawing 92-0605-05033
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, <u>John 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 28 SEPT , 2008 Date 5-8-2007 Signed FENOC-PNPP (name of repair organization) GE (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 HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on MAY14, 20 e7 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 514, 20 07 Signed Thomas State Commissions NB 9330 "N"!"A" Ohio Comm (National Board (include endorsements), and jurisdiction, and no.)

1B21-367 P8 1 of 3

NIS-2						REPLACEMI	ENTS
PNPP No. 9308		equired by the Prov	risions of ti	ne ASME C	ode Secti	on XI	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-2-07</u>	
		Road, Perry, Ohio	44081			Sheet 1 of	3
2. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)	·	-	Unit 1	
-	10 Center	Road, Perry, Ohio	44081			200168163 & 200 (Repair Org. P.O. N	
3. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPF	2	Type Code Symb	ool Stamp <u>NR</u>
	10 C	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No.	
						Expiration Date 9	9-28-08
4. Identification	n of System: <u>1B2</u>	1 Nuclear Boiler S	ystem				•
5. (a) Applical	ble Construction C	ode: <u>ASME Sectio</u> NAME/SECT	n III - Clas TON/DIVISIO	s 1 NB DN/CLASS		,19 <u>74</u> Editio	on
Winter	19 75	Addenda Code	Case(s) N	lone			
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacemen		W/75 Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989	N/A Addenda	N/A 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>						
(e) Design	Responsibilities <u>F</u>		e Case(s)				
6. Identification	n of Components F	Repaired, Modified,	, or Replac	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
Valve	Rockwell International Corp	QA-26	665	1B21 F0032A	1981	Replacement Order 200168163	YES
Valve	Rockwell International Corp	QC-51	670	1B21 F0032B	1982	Replacement Order 200168164	YES
	·						
7. Description	of Work: Remove	test connection fro	m valves l	or inspection	on and rep	place Ht # K5632	·
8. Test Condu							er- 🗌
Pressure 10	035 psi Te	st Temperature 78	<u>3</u>	legrees F	Code	Case(s) <u>N416-2</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQI-1741	
). Remarks: NONE	
IO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.	
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, Russ Matthys , 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 2008 Date 5-2-2007 Signed FENOC-PNPP (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>HARTFORD STEAM BOILER CT.</u> of <u>HARTFORD, CT</u> have	ļ
inspected the repair, modification or replacement described in this report on MAY4, 2007 and state that to	l
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with	
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,	
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in	
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.	
Date 5/4 , 20 07 Signed Thomas Logo Commissions NB 9330 "N"I"A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)	

2	. Manufactured by	ell International Corp.	, 1900 S. Saunders St., Holoer) pany, P.O. Box 500, Cler prits 1 & 2, Horth Pe	veland, Ohio 44101
£ _	Manufactured for Cleve	THE PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF TH		
1	Pump or ValveV	Nomina	Inlet Size 20 Out	let Size (inch)
	(a) Model No.; (b) N (Serius No.	Certificate Holder's (c) Canadian Certal Registration	(d) Drawing	(f) Nat'L (g) Year Bd: No. Built
	or Type	No. No.	No. (e) Class D-81-24401-15 1	665 1981
	(1)	QA-26 N/A	Rev. A	
	p)		0 0	23
	(5) =	36'1		
	(6) (7)			
	(8)			
	(10):			
	5. Controlled C	Iosure Check Valve (Brief description of service for) 0453-122	which equipment well designed 36-24	4401
				M/A
	6. Design Conditions 1	(Temperature	F or Valve Pressure Class.	
	i na e transita de la companya de la			
- 19 miles	7. Cold Working Pressure 2	250 ps. at 100°F.		
•	7. Cold Working Pressure 2 8. Pressure Retaining Pieces	250 ps at 100°F.		Remarks
•	7. Cold Working Pressure 2	250 ps. at 100°F. Material Spec. No.	Manufacturer:	Remarks
8	7. Cold Working Pressure 2 8 Pressure Retaining Preces Mark No. (a) Castings	250 pg st 100°F. Material Spec. No.	Manufacturer Prockyell_Int 1	Remaiks Body
•	7. Cold Working Pressure 2 8. Pressure Retaining Pieces Mark No.	Material Spec. No. SA 216 Gr : WCC	Manufacturer	Body
•	7. Cold Working Pressure 2 8 Pressure Retaining Preces Mark No. (a) Castings	Material Spec. No.	Manufacturer Prockyell_Int 1	Body
	7. Cold Working Pressure 28 Pressure Retaining Pieces Mark No. (a) Castings 4810453	Material Spec. No. SA 216 Gr : WCC	Manufacturer Rockwell Int 1 (Metal Casting Div)	Body Body
4	7. Cold Working Pressure 2 8 Pressure Retaining Preces Mark No. (a) Castings	250 ps: st 100°F. Material Spec. No. SA 216 Cr. VCC	Manufacturer Rockwell_int[1] (Metal_Casting_Div)	Body
	7. Cold Working Pressure 2 8 Pressure Retaining Pieces Mark No. (a) Castings 4810453	Material Spec. No. SA 216 Gr. WCC	Manufacturer Rockwell Int 1 (Metal Casting Div)	Body.
	7. Cold Working Pressure 2 8. Pressure Retaining Preces Mark No. (a) Castings 4810453	Material Spec. No. SA 216 Gr. VCC	Manufacturer Rockwell Int 1 (Metal Casting Div)	Body.
	7. Cold Working Pressure 2 8 Pressure Retaining Pieces Mark No. (a) Castings 4810453	Material Spec. No. SA' 216 Cr., UCC.	Manufacturer Rockwell_int.1 (Metal_Casting_Div)	Body.
	7. Cold Working Pressure 2 8. Pressure Retaining Preces Mark No. (a) Castings 4810453 (b) Forgings 116447	Material Spec. No. SA 216 GT VCC SA 105	Manufacturer Rockwell Int 1 (Metal Casting Div) Charles E. Larson	Body STENT S STENT S STENT S CAL GA CAL GA Cover
	7. Cold Working Pressure 28 Pressure Retaining Pieces Mark No. (a) Castings 4810453	Material Spec. No. SA 216 Cr. VCC SA 105 SA 105	Manufacturer: Rockwell Int'1 (Metal Casting Div) Charles E. Larson Cann & Saul Steel Company	Body FERT &
	7. Cold Working Pressure 2 8 Pressure Retaining Preces Mark No. (a) Castings 4810453 (b) Forgings 116447 220528	250 pg et 100°F Material Spec. No. SA 216 Gr. UCC SA 105 SA 105 SA 638 Gr. 66072	Manufacturer: Rockwell Int'1 (Metal Casting Div) Charles E. Larson Cann & Saul Steel Company Charles E. Larson	Body. SNI P. SNI P.
	7. Cold Working Pressure 2 8. Pressure Retaining Preces Mark No. (a) Castings 4810453 (b) Forgings 116447 220528	250 pg et 100°F Material Spec. No. SA 216 Gr. UCC SA 105 SA 105 SA 638 Gr. 66072	Manufacturer Rockwell Int'1 (Metal Casting Div) Charles E. Larson Conn & Saul Steel Company Charles E. Larson Charles E. Larson	Body STENT S O BY \$ O BY \$ O STORY Cap QA Cover Disk Casket Retainer
	7. Cold Working Pressure 2 8. Pressure Retaining Preces Mark No. (a) Castings 4810453 (b) Forgings 116447 220528 36996 126376 116792	SA 105	Manufacturer Rockwell int'l (Metal Casting Div) Charles E. Larson Cann & Saul Steel Company Charles E. Larson Charles E. Larson Charles E. Larson Charles E. Larson	Body File 2 State 2 Cap gh Cover Disk Casket Retainer Drain Cap (2) Test Fitting
	7. Cold Working Pressure 2 8 Pressure Retaining Preces Mark No. (a) Castings 4810453 (b) Forgings 116447 220528 36996 126376 116792	SA 105	Charles E. Larson	Body CNI & COVET DISK Casket Retainer Drain Cap (2) Test Fitting

Mark no	Marurial Spec. No.	- 101utsaturana.	Remarks
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Other Paris	2. 10(2- 7)	Castral Pina f	Equalizer
L23469	- SA 106 Gr. B	Steel Products	Edgarizer
		3222	
05505	SA 106 Gr. B	Capital Pipe &" > 3	, Drain Nipple
	`,	Steel Products	
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information on file at analysis certified by (1) Rockiell Int. McConfineste not the confineste not the confineste not the sample of the confineste not the sample of the confineste of the confineste not the confineste of the confineste not trequired. List not the confineste not trequired that the confineste not trequired that the confineste not trequired that for the confineste not trequired that the confineste not treat the confineste not tr	centricate of short and only on file at the lossected the short for the lossected with the ASME Code. Short the lossected with the ASME Code. Short the lossected in the short for the lossected in the lossected with the ASME Code. Short the lossected in the lossected in the short for	Design Design Design Design Design Design Design Corp., Raleigh, NC 27/ crnational Corp., Rale Inspection	ssure Vesset Inspectors I Co. I this Data Report on criticate Holder has con- for implied, concerning er shall be liable in any

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		lame and Address) Jalve Nom	inal Inlet Size 20 Ou	illet Size 20 tinch)
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	CERTIFICATION OF	DESIGN		
Design information on file at	Rockvell International	Corp., Raleigh, NC 27	603	
Stress analysis report (Class 1	onlyl on file at Rockwell. Inter	national Corp., Ralei	gh, NC 27603	
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Design specifications centred t	or() Milton G. Capiotis		O BY	
PE State <u>FA</u> Stress analysis certified by (1)	R.L. Clapper	<u> </u>	β 5555 F	
PE State NC	Reg No. 10057		CAI/QI	
(1) Signature not required List	보십시다. 경기 가장 사람들이 되었다.		\"\Q!\\	
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, the undersigned, holding a v	valid commission issued by the Na orth-Carolina	itional Board of Boiler and Pre-	sture Vessel Inspectors	
of Hart ford, CT	have inspected the	pump, or valve: described in	this Data Report on	5
<i>FIB.05</i> , i	9 Rod, and state that to the best of	my knowledge and belief, the NC	entificate Holder has con-	
structed this pump, or valve, in	accordance with the ASME Code, S	ection III.		
2	er the Inspector nor his employer	The state of the s		3
	s Data Report, Furthermore, neithe			
	or property damage or a loss of an $O \cap O \cap O$	A ring hising train or connected	with this hispection.	
	10 19 82	NBB383 NC919	1	
11111 177 FV	Commission	(Net1 8d , State, From.	end No.)	
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NIS	5-2/NR-1 OWNI	ER'S REPOR equired by the Prov					ENTS
PNPP No. 930	08 Rev. 9/11/00	equired by the Frov					NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-4-</u> 07	
		Road, Perry, Ohio	44081	Sheet 1 of	1		
2. Plant:	Perry Nuc	lear Power Plant (I	PNPP)			Unit 1	
	10 Center	Road, Perry, Ohio	44081			200261585 (Repair Org. P.O. I	No. etc.)
						(Nepall Olg. F.O. I	vo., e.c.)
3. Work Pe	erformed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Sym	bol Stamp <u>NR</u>
	10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	
						Expiration Date	9-28-08
4. Identifica	ation of System: 1B2	1 Nuclear Boiler S	ystem		-		
5. (a) Applie	cable Construction C					,19 <u>74</u> Editi	on
\ 0.45 m.k	40.75	NAME/SECT			00 N 04	0 N 272 N 2 N 4	40 N 74 0
Wint N-71-9, N-7		Addenda Code	Case(s) N	1-224-1, N-2	:25, N-24	9, N-272, N-3, N-4	13, N-/1-6,
(b) Cons	struction Code used f	or repairs, modifica	ations, or r	eplacement			N/A
(c) ASM	E Code Section XI a	opticable for Inserv	ice Inspec	tion:	1989	ition Addenda N/A	Code Case(s) N/A
		•			Ed	ition Addenda	Code Case(s)
. ,	icable Edition of Sect			odification,	or Replac	cements:	
	9 <u>, N/A</u> 19 <u>N/A</u>	Code	e Case(s)				
` ,	gn Responsibilities <u>F</u>	•					
6. Identifica	tion of Components I	Repaired, Modified,	·	cement Con	nponents		T-::::-1
Name of Componer		Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
		4504	No.	411001107	4005	or Modification	Stamped
Piping System	Johnson Controls	1B21	001	1H22H27 44	1985	Replacement	YES
			<u> </u>				
<u>L</u>		<u> </u>	<u> </u>	<u>.</u>		I	<u> </u>
7. Descriptio	on of Work: Replace	mechanical snubb	er Lisega (existina SN	0061480	03-006) w/new Lise	ega snubber
3 ች 5 ሕ/s SN 2040000	7						<u> </u>
8. Test Con	ducted: Hydrostatio	- Pneumat	ic- 🔲 1	Nominal Op	erating Pi	ressure- Oth	er- 🗌
Pressure	<u>N/A</u> psi Te	st Temperature <u>1</u>	V/A c	legrees F	Code	Case(s) <u>N/A</u>	
		 -					

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NQI-1741
Remarks: Fujnctional location number 1H22H2744 was originally installed by Johnson Controls hanger
number 1H22-P027-H1122 as identified on isometric814-0605-00901. Ref: JCI final N-5 data report
1B21-0070-F
NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FECT 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, Russ Matthys, 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 , 2008
Date 5-4-2007 Signed FENOC-PNPP QC Supervisor (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO
and employed by HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on MAY4, 20 01 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 5/4, 20 07 Signed Thrung Commissions NB 9330 "N"I"A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

NIS-2/		R'S REPOR quired by the Prov				REPLACEM	ENTS
PNPP No. 9308 Re			1510115 01 11	—————			NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-5-07</u>	
	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant:		ear Power Plant (F				Unit <u>1</u> 200063004	
	10 Center Road, Perry, Ohio 44081 200063004 (Repair Org. P.O. I						Vo., etc.)
3. Work Perform	ned By: FIRSTE	NERGY Nuclear Ope	erating Cor	npany PNPP	<u>.</u>	Type Code Syml	ool Stamp <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33
						Expiration Date	9-28-08
4. Identification	of System: 1B2	Nuclear Boiler Sy	/stem				
5. (a) Applicable	e Construction Co	ode: <u>ASME Section</u> NAME/SECT				,19 <u>74</u> Editi	on
Winter	19 <u>75</u> Adden	da Code Case(s	1644-5,	1728, N-32-	4, N-241,	N-242, N-272, N-	282, N-413
(b) Construc	tion Code used fo	or repairs, modifica	itions, or r	eplacemen	ts: <u>1974</u> Edi	tion Addenda	N/A Code Case(s)
(c) ASME Co	ode Section XI ap	plicable for Inservi	ice Inspec	tion:		tion Addenda	N/A Code Case(s)
(d) Applicabl	e Edition of Section	on XI Utilized for R	tepairs, M	odification,	or Replac	ements:	
19 <u>89</u> , <u>N</u>	I/A 19 <u>N/A</u>	Addenda N/A	e Case(s)				
(e) Design R	esponsibilities <u>FI</u>						
6. Identification	of Components F	Repaired, Modified,	or Replac	cement 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
Piping System	Pullman Power	1B21	109	1B21 H0445	1985	Replacement	YES
7. Description of	Work: Replace :	snubber SN 61400	1/96 (exis	ting) w/new	snubber	SN 04616533/010	
8. Test Conduct	ed: Hydrostatic	- 🗌 Pneumat	ic- 🗌 🛮 1	Nominal Op	erating Pr	ressure- Oth	er- 🗌
Pressure <u>NA</u>	psi Tes	st Temperature N	Δ (legrees F	Code	Case(s) NA	

PI	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
9	. Remarks: NONE
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NI.	O MANACOL ATO/CTAMDINIC DEDEODMED DUE TO THE INTEDEACE CONTROLS OF DA 2270 BEING IN
	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
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	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, Russ Matthys, 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 2008
	Date 5-5-2007 Signed FENOC-PNPP (upper visor (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	I, Thomas G. LASholding 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 HARTFORD STEAM BOILER CT. of HARTFORD, CT have
Ì	inspected the repair; modification or replacement described in this report on MAYII, 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 arising from or connected with this inspection.
	Date 5 11, 20 07 Signed Themes 1 Dept Commissions NB9 330 NIA Office (inspector) (National Board (include endorsements), and jurisdiction, and no.)

NIS-	-2/NR-1 OWNE	ER'S REPOR equired by the Prov				•	ENTS
PNPP No. 9308		equired by the Frov	1510115 01 11	THE AGIVIE G	Oue occii	1011 / 1	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-5-07</u>	
	10 Center Road, Perry, Ohio 44081					Sheet 1 of	1
2. Plant:	10 Center Road, Perry, Ohio 44081 200063005					200063005	
3. Work Per	formed By: <u>FIRSTE</u> 10 Co	NERGY Nuclear Op enter Road, Perry,) -	(Repair Org. P.O. I Type Code Syml Authorization No Expiration Date	bol Stamp <u>N</u> o. <u>33</u>
4. Identificat	tion of System: <u>1B2</u>	1 Nuclear Boiler S	ystem			·	
. , , ,	able Construction Co	NAME/SECT	TION/DIVISIO	ON/CLASS		,19 <u>74</u> Editi	
Winte (b) Const	er 19 <u>75</u> Adden truction Code used f				ts: <u>1974</u>	N-242, N-272, N-2 W/75 ition Addenda	282, N-413 N/A Code Case(s
	E Code Section XI ap	•	·			ition Addenda	N/A Code Case(s
` ' ' ' ' '	cable Edition of Secti _, <u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	•	odification,	or Replac	ements:	
(e) Desig	n Responsibilities <u>F</u>		e Case(s)				
3. Identificati	ion of Components F	Repaired, Modified,	, or Replac	ement Cor	nponents		
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	1B21	109	1B21 H0449	1985	Replacement	YES
7 Description	n of Work: Replace	snuhher SN 61400	1/97 (exis	tina) w/new	z snubber	SN 04616533/017	.
	lucted: Hydrostatic						er- \square
	NA psi Te	-		degrees F	_	Case(s) NA	
		•		•		. ,	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Bac	k) DI-1741
9. Remarks: NONE	
	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING 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 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.	
CERTIFICATE OF COMPLIANCE	
I, Russ Matthys, 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 ASM Code and to the National Board Inspection Code "NR" rules.	re ME
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 SEPT , 2008	_
Date 5-5-2007 Signed FENOC-PNPP Rus Marine Of Supervisor (name of repair organization) (authorized representative) (title)	<u>r</u>
OFFICE AT OF MODEONOMINE INSPECTION	
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	_
	ave
inspected the repair, modification or replacement described in this report on MMIL 2007 and state that to	o
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with	ith
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	J
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspect	
Date 5/11, 20 07 Signed Thomas Back Commissions NB 9330 NT A Commissions (National Board (include endorsement and jurisdiction, and no.)	MU.

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A	NIS-2	NR-1 OWNE						ENTS
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1 10 Center Road, Perry, Ohio 44081 200063003 (Repar Org. P.O. No. etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 33 Expiration Date 9-28-08 4. Identification of System: 1821 Nuclear Boiler System 5. (a) Applicable Construction Code: ASME Section III - Class 1 NF NAME/SECTION/DIVISION/CLASS Winter 19 75 Addenda Code Case(s) 1644-5, 1728, N-32-4, N-241, N-242, N-272, N-282, N-413 (b) Construction Code used for repairs, modifications, or replacements: 1974 Wi/75 Edition Addenda Code Case(s) (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A Addenda 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 FENOC 5. Identification of Components Repaired, Modified, or Replacement Components Name of Manufacturer Serial No. Bail Distriction of Manufacturer Serial No. Bail Replacement, or Modification Stamped Piping Pullman Power 1821 109 1821 1985 Replacement YES Poscription of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 7. Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 3. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Other	PNPP No. 9308 I		quired by the Flov	1210112 01 11	————	Oue Secti		NQI-1741
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1 10 Center Road, Perry, Ohio 44081 200063003 (Repair Org. P.O. No. etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 4. Identification of System: 1B21 Nuclear Boiler System 5. (a) Applicable Construction Code: ASME Section III - Class 1 NF NAME/SECTION/DIVISION/CLASS Winter 19 75 Addenda Code Case(s) 1644-5, 1728, N-32-4, N-241, N-242, N-272, N-282, N-413 (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition Addenda Code Case(s) (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A NIA 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 FENOC 5. Identification of Components Repaired, Modified, or Replacement Components Name of Component Manufacturer Serial No. No. 10. Built Replacement, Code Case(s) Piping Pullman Power 1821 109 1821 1985 Replacement YES Poscription of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 Poscription of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 Poscription Of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 Poscription Of Conducted: Hydrostatic- Poematic- Nominal Operating Pressure- Other-	1. Owner:	FIRS	TENERGY CORP.				Date <u>5-5-07</u>	
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 10 Piping System 10 Center Road, Perry, Ohio 44081 10 Center Road, Perry, Ohio 44081 11 Center Road, Perry, Ohio 44081 12 Piping System 12 Center Road, Perry, Ohio 44081 13 Authorization No. 33 Expiration Date 9-28-08 14 Edition 15 Authorization No. 33 16 Expiration Date 9-28-08 16 Edition 16 Addenda 17 Center Road, Perry, Ohio 44081 18 Authorization No. 33 19 Py4 Edition 19 Authorization No. 33 19 Py4 Edition 19 Authorization No. 19 Py4 Edition 19		10 Center I	Road, Perry, Ohio	44081			Sheet 1 of	1
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 33 Expiration Date 9-28-08 4. Identification of System: 1B21 Nuclear Boiler System 5. (a) Applicable Construction Code: ASME Section III - Class 1 NF	2. Plant:							
Authorization No	_	10 Center F	Road, Perry, Ohio 4	44081				Vo , etc.)
4. Identification of System: 1B21 Nuclear Boiler System 5. (a) Applicable Construction Code: ASME Section III - Class 1 NF	3. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Sym	bol Stamp <u>NF</u>
4. Identification of System: 1B21 Nuclear Boiler System 5. (a) Applicable Construction Code: ASME Section III - Class 1 NF		10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	. 33
S. (a) Applicable Construction Code: ASME Section III - Class 1 NF							Expiration Date	9-28-08
Winter 19 75 Addenda Code Case(s) 1644-5, 1728, N-32-4, N-241, N-242, N-272, N-282, N-413 (b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 Addenda Code Case(s) Winter Code Case(s) Winter Code Case(s) Winter Code Case(s) Winter	4. Identificatio	n of System: 1B2	1 Nuclear Boiler Sy	ystem			· · · · · · · · · · · · · · · · · · ·	
(b) Construction Code used for repairs, modifications, or replacements: 1974 W/75 Addenda Code Case(s) (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A Edition Addenda 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 FENOC 6. Identification of Components Repaired, Modified, or Replacement Components Name of Component Manufacturer Serial No. Board No. Piping Pullman Power 1821 109 1821 1985 Replacement YES Piping System Pullman Power 1821 109 1821 1985 Replacement YES 7. Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 7. Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-	5. (a) Applical	ole Construction Co					,19 <u>74</u> Edit	ion
Edition Addenda Code Case(s)	Winter	19 <u>75</u> Adden	da Code Case(s) 1644-5	1728, N-32-	4, N-241	N-242, N-272, N-	282, N-413
Edition Addenda Code Case(s)	(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacemen			N/A Code Case(s)
19 89 , N/A 19 N/A Addenda N/A Code Case(s) (e) Design Responsibilities FENOC 6. Identification of Components Repaired, Modified, or Replacement Components Name of Component Name of Manufacturer Serial No. No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	, ,					Ed	ition Addenda	N/A Code Case(s)
(e) Design Responsibilities FENOC 5. Identification of Components Repaired, Modified, or Replacement Components Name of Component Name of Manufacturer Nat. Board ID. Built Replacement, or Modification Stamped				·	odification,	or Replac	cements:	
Name of Components Repaired, Modified, or Replacement Components Name of Component Name of Manufacturer Serial No. No.	19 <u>89</u> ,	<u>N/A</u> 19 <u>N/A</u>						
Name of Component Name of Manufacturer Serial No. Piping System Pullman Power 1821 Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 Test Conducted: Hydrostatic- Pneumatic- Nat. Board ID. Plear Replacement, or Modification of Manufacturer Serial No. Nat. Dother Year Replacement, Replacement, or Modification or Modification of Modification of Modification Stamped Nat. Board ID. Built Replacement, or Modification or Modification of Modification of Modification Stamped No. 1985 Replacement YES No. 1985 Replacement YES No. Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 No. 1985 Replacement Other- Ot	, ,	·						
Component Manufacturer Serial No. Serial No. Board No. ID. Built Replacement, or Modification Stamped Piping System Pullman Power 1821 109 1821 1985 Replacement YES 7. Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 8. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-	6. Identification	n of Components F	Repaired, Modified,	, or Replac	cement Cor	nponents	·	
System H0450. To Description of Work: Replace snubber SN 61403/24 (existing) w/new snubber SN 03615883/020 To St Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-				Board			Replacement,	Code
Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-		Pullman Power	1821	109		1985	Replacement	YES
Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-								
Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-								
	7. Description	of Work: Replace	snubber SN 61403	3/24 (existi	ng) w/new :	snubber S	SN 03615883/020	
Pressure NA psi Test Temperature NA degrees E Code Case(s) NA								er- 🗌
total and the state of the stat	Pressure N	A psi Te	st Temperature N.	Α α	degrees F	Code	Case(s) NA	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: NONE
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, Russ Matthys, 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 2008
Date 5-5-2007 Signed FENOC-PNPP (authorized representative) OC Supervisor (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, THOMAS G. LAPS ,holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by <u>HARTFORD STEAM BOILER CT.</u> of <u>HARTFORD, CT</u> have
inspected the repair, modification or replacement described in this report on MAYIO, 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 arising from or connected with this inspection. Date 5 10, 20 07 Signed Themes 1 Commissions NB4330 NTA Commissions (National Board (include endorsements), and jurisdiction, and no.)

1	As re	CR'S REPOR quired by the Prov				REPLACEM on XI	
PNPP No. 9308 F	Rev. 9/11/00						NQI-1741
1. Owner:	FIRS:	TENERGY CORP.				Date <u>5-5-07</u>	
_	10 Center F	Road, Perry Ohio	44081	 -		Sheet 1 of	1
2. Plant: _	. Plant: Perry Nuclear Power Plant (PNPP)					Unit 1	
~	10 Center F	Road, Perry, Ohlo	44081			200174739 (Repair Org. P.O. I	Vo., etc.)
3. Work Perfo	rmed By: FIRSTE				•	Type Code Sym	
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	
						Expiration Date	9-28-08
4. Identificatio	n of System: 1B2	1 Nuclear Boiler S	ystem				
5. (a) Applicat	ole Construction Co	ode: ASME Sectio				19 <u>74</u> Editi	on
Winter	19 <u>75</u> Adden	da Code Case(s) 1644-5,	1728, N-32-	4, N-241,	N-242, N-272, N-	282, N-413
(b) Constru	ection Code used for	or repairs, modifica	ations, or r	eplacemen	ts: <u>1974</u> Edi	W/75 ition Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	1989 Edi	N/A Ition Addenda	N/A Code Case(s)
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	ements:	, ,
19 <u>89</u> ,	N/A 19 N/A	Addenda N/A					
(e) Design	Responsibilities F		e Case(s)				
6. Identification	n of Components F	Repaired, Modifled	, or Replac	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	Puliman Power	1B21	109	1B21 H0471	1985	Replacement	YES
							
7 Description	of Work: Replace	snubber SN 61432	23/1 (existi	na) w/new :	snubber S	N 30400009/17	<u></u>
	cted: Hydrostatic					ressure- Oth	er- 🗍
	•	st Temperature N		legrees F		Case(s) NA	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NOI-1741
9. Remarks: NONE
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, Russ Matthys, 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 , 2008
Date 5-5-2007 Signed FENOC-PNPP Russ Mart OC Supervisor (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, THOMAS G. LAPS, holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on MN11, 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 arising from or connected with this inspection.
Date 5/11, 20 07 Signed Thomy & Same Commissions NB9338 NTA COMM (National Board (include endorsements), and jurisdiction, and no.)

:

PNPP No. 9308		equired by the Prov		- ASIVIL O			NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 5/9/07	
-	10 Center	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plent:	Perry Nuc	lear Power Plant (I	PNPP)			Unit 1	
	10 Center I	Road, Perry, Ohio	44081			200073616 & 20 (Repair Org. P.O. I	
3. Work Perfe	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Sym	bol Stamp <u>NR</u>
	10 C	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No Expiration Date	
4. Identification	on of System: 1B2	1 Nuclear Boiler					
5. (a) Applica	ble Construction C	ode: <u>ASME SECT</u> NAME/SECT				,19 <u>74</u> Editi	on
WINTE	19 <u>75</u>	Addenda Code	Case(s) <u>1</u>	728, 1644-4	, 272		
(b) Constr	uction Code used f	or repairs, modifica	ations, or r	eplacement		W75 ition Addenda	Code Case(s)
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989		N/A Code Case(s)
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, M	odification, o	or Replac	ements:	
	19 <u>N/A</u>	Code	e Case(s)				
	Responsibilities <u>F</u> n of Components F		, or Replac	cement Com	ponents		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other 1D.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F41D	1985	REPLACEMENT	YES
							
L					13.1.40005		
•	of Work: Removed K745 and 12 new						let studs
3. Test Condu	cted: Hydrostatic	- Pneumat	ic- 🗌 🛮 1	Nominal Ope	erating P	ressure- 🗵 Oth	er- 🗌
Pressure 11	<u>032 </u>	st Temperature 14	+Z 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-174
9. Remarks: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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 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
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 15, 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 arising from or connected with this inspection.
Date MAILS, 20 07 Signed Thomas Board (inspector) Commissions NB9339 NTA Commissions (National Board (include endorsements), and jurisdiction, and no.)

475 mm (18.70 inch)

1643 mm (64.69 inch)

			Div. I) // 205
1 Manufactured by	G. Dikkers & Co. N.V. He		
5 M	(Name and Address of Manul Oneral Electric San Jose		SHI
2 Manufactored for ~	(Name and Address of Purch		
3 Location of Installatio		erry l	المستعدد المراجع المستعدد المراجع المستعدد المست
4	G471-6/125.04.04	23	1978
(CHN) 5. Valve	(Drawing No.) U471 Identif	(Nat'l Brd. No.) ying Nos. 160851	(Yeer Built)
	I No , Smies No)	(Manufactu	era Serial No.)
Type - Safety	safery/relief Safety Rehal, Pilot; Power Actuated		
Onfice Size	4.84" Nominal Inlet Size	8'' Outlet	Size 10"
6 Set Pressure (PSIG)			585 °F
Stamped Capacity	Set. Sleem Sec. Sleem	Overpressure Blowdo	wn (PSIG)39.7
Hydrostatic Test (PSIC	0, ~~ 9	Outlet	975
7. Pressure Retaining Pie		(Applicable to v	elves for closed systems only)
	Serial No. or Identification		riel Specification Type or Grade
Body	UJ.U58 s/n 2	SA_352_LC1	
Bonnet or Yoke Support Rods	-11.12.8 s/n 2		
Nozzte	.AEU 049		
Disc	59.04.8 s/n 38	SA_351. CE3	A
Spring Washers	.263095 s/n 43		67
Adjusting Screw	AFU 112 + 066	SA182_F31	6:
Spindle	. AEW 033	A564=74	type630candH1.100
Spring			
Bolting Other Pieces	AUP, AJR, AKA, AJJ, ALR,	SA_193=B7/	SA1.94=7./SA . 194±2H . 1
Liner	AUY, AMR, AJM	SA_ 351. CE3	
PTHET	· · · · · · · · · · · · · · · · · · ·		
Cover .	55.46.7 s/n 3	SA351CE8	M

Max, outside diam, valve body:

Max. ourside length valve :

(1/76)

^{*} Supplemental sheets in form of fists, 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 up 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 Stim. 176 Code Case No. (Date)
Date 10-11-78 . Signed G. Bikkers & Fo. N.V. by W.M. Willems (Manufacturi) . Our ASME Certificate of Authorization No Symbol expires 1st July, 1980 (Date)
CERTIFICATION OF DESIGN
Design information on file at <u>General_Electric_and_Perry</u> Stress analysis report (Class 1 only) on file at <u>General_Electric_and_Perry</u>
Design specifications certified by Boyd P. Brooks PE State California Reg No. 13655 Stress report certified by 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 III. have inspected the pump, or valve, described in this Data Report on 10-11 1978, and state that to the best of my knowledge and belief, the Manufacturer has con-
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
the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be fiable in any
manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date
Date 10-11 19.78 Signed Section Commissions (Nat'l Bd., State Prov. and No.)

	NIS-2						REPLACEMI	ENTS
PNPP	No. 9308 F	AS re Rev. 9/11/00	quired by the Prov	ISIONS OF II	TE ASIVE CO	ode Secti	on XI	NQI-1741
1. Ov	vner:	FIRS	TENERGY CORP.				Date <u>5/14/07</u>	
			Road, Perry, Ohic	44081			Sheet 1 of	2
2. Pla	ant:	Perry Nucl	ear Power Plant (F	PNPP)			Unit 1	
		10 Center F	Road, Perry, Ohio	14081			200073622 & 20 (Repair Org. P.O. N	
						(Nepair Olg. F.O. N	10., 810.)	
3. W	ork Perfo	erformed By: FIRSTENERGY Nuclear Operating Company PNPP				Type Code Symb	ool Stamp <u>NR</u>	
		10 Ce	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	
	•						Expiration Date 9	9/28/08
4. lde	ntificatio	n of System: 1B2	1 Nuclear Boiler		****		·	
5. (a)	Applicat	ele Construction Co	ode: <u>ASME SECTI</u>	ON III CLA			,19 <u>74</u> Editio	on
	MAINITE	D 10.75	NAME/SECT			1 272		
	AAIIAIC	R 19 <u>75</u> /	Addenda Code	Case(s) <u>1</u>	120, 1044-4	, 212		
(b)	Constru	ection Code used for	or repairs, modifica	ations, or r	eplacement	s: <u>1974</u>	W75	, * · · · · · · · · · · · · · · · · · ·
, ,						Eq	ition Addenda	Code Case(s)
(c)	ASME (Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	NONE Addenda	N/A Code Case(s)
(d)	Applicat	ole Edition of Secti	on XI Utilized for F	Repairs, Mo	odification, o	or Replac	ements:	
	19 <u>89</u> ,	19 <u>N/A</u>	Addenda N/A	e Case(s)				
(e)	Design	Responsibilities <u>Fi</u>						
6. Ide	ntification	n of Components F	Repaired, Modified	, or Replac	cement Con	ponents		
1	ame of	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
		Mandiactorei	Jenai No.	No.		Don	or Modification	Stamped
PIP	NG TEM	GENERAL ELECTRIC	1821	64084	1B21F47H	1985	REPLACEMENT	YES
	- <u></u>							
-			· · · · · · · · · · · · · · · · · · ·		·			
7. Des	cription (of Work: <u>Removed</u>	l valve S/N 160870) an <u>d insta</u>	illed valve S	/N 16089	94. Used 12 new in	let studs
1-5	/8" HT #	OG84 and 12 nev	v 1-5/8" hydra nuts	HT# 590	A. Continu	ed in rem	arks.	
	•	cted: Hydrostatic		_		_	_	er- 🗌
Pre	ssure <u>10</u>	psi Tes	st Temperature 14	12 c	legrees F	Code	Case(s) N/A	
						 		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/1 1/00 NQI-1741
9. Remarks: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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, <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 08 Date 14 May , 20 07 Signed FENOC-PNPP Minute 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 ofOHIO
and employed by HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on MAY 15 20 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,
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 515, 20 07 Signed The Hour Later Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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and the same and the same and the same property and

. Manufactured by 🛴		cers & Co. Ni			letherlands		
Manufactured for	C	Electric,	San Jose,	California	· · · · · · · · · · · · · · · · · · ·		
ation of Installati	on Perry I	+ Spares		rry Uhio			
N/A	G 471-6	(Name and 125.04.03 t	Address)	152		1979	
ICAN)		(Drawing No.)		(Nat'l, Brd. No.)	. (1)	Year Built)	
Valve	<u> 6471</u>		Identifying	Nos1608	394	 	
	lel No., Series No.) Safety/			. IN C	Certificate Holder	's Serial No.)	
TypeSefe	ty, Safety Relief; Pile	ot; Power Actuated				10.11	
Orifice Size	4,84"	Nominal Inlet S	Size8"	(Flange)	Outlet Size		
	inch			Inch Bug to the		inch	
Set Pressure (PSIG)	1180		Pated 1	Temperature		585	°F
Stamped Capacity		lbs/hr @_		Overpressure I	Blowdown (PS	42.50	₹ '
Capacity:				Overbrossule i	Dibirdovin 11 3		
* * * * * * * * * * * * * * * * * * * *	Sal. Steam	235	.n .	•		4/5	
Hydrostatic Test (PS	Sat. Steam	235	50	Outlet (Applic	able to valves for	975	
Hydrostatic Test (PS	Sal. Steam IG) Inlet	 	50	Outlet (Applic		closed systems only)
Hydrostatic Test (PS	Sal. Steam IG) Inlet	Serial No. or	.00	Outlet (Applic	Material Spe	closed systems only)
Hydrostatic Test (PS	Sal. Steam IG) Inlet	 	60	Outlet / (Applic		closed systems only)
Hydrostatic Test (PS Pressure Retaining P	Sal. Steam IG) Inlet leces	Serial No. or Identification			Material Spe Incl. Type o	closed systems only)
Hydrostatic Test (PS	Sel. Steam IG) Inlet leces	Serial No. or Identification			Material Spe Incl. Type o	closed systems only	,
Hydrostatic Test (PS Pressure Retaining P	Sel. Steam IG) Inlet leces	Serial No. or Identification		SA 352	Material Spe Incl. Type o	closed systems only	1
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke	Sel. Steam IG) Inlet	Serial No. or Identification		SA 352 SA 352 SA 350	Material Spe Incl. Type of LCB LCB	closed systems only)
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods	Sel. Steam HG) Inlet leces	Serial No. or Identification		SA 352 SA 352 SA 350 SA 351	Material Spe Incl. Type of LCB LCB L'F2 CF3A	closed systems only cification or Grade	
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle	Sel. Steam HG) Inlet leces	Serial No. or Identification /n_3 /n_5 /n_1B		SA 352 SA 352 SA 350 SA 351 45 Cr 1	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67	closed systems only cification or Grade	·
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers	-08-05-8-s -13-38-8-s -AJW-09360-07-9-s -26-30-95	Serial No. or Identification		SA 352 SA 352 SA 350 SA 351 45 Cr I SA 182	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316	closed systems only cification or Grade	
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw	-08-05-8-s -13-38-8-s -AJW-09360-07-9-s -26-30-95	Serial No. or Identification /n_3 /n_5 /n_1B /n_18		SA 352 SA 352 SA 350 SA 351 45 Cr I SA 182	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316	closed systems only cification or Grade	
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle	-08-05-8-s -13-38-8-s -AJW-09360-07-9-s -26-30-95-	Serial No. or Identification /n_3 /n_5 /n_1B /n_18		SA 352 SA 352 SA 350 SA 351 45 Cr I SA 182 A 564-	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316 74 type 63	closed systems only cification or Grade O cond. H110	0
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring	-08-05-8-s -13-38-8-s -AJW-09360-07-9-s -26-30-95 -AME-096-A -CAD-011	Serial No. or Identification /n_3 /n_5 /n_1B /n_18		SA 352 SA 352 SA 350 SA 351 45 Cr I SA 182 A 564-	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316 74 type 63	closed systems only cification or Grade	0
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle	-08_05_8_s -13_38_8_s -AJW_09360_07_9_s -26_30_95_ AME_096_A -CAD_011	Serial No. or Identification /n_3 /n_5 /n_1B s/n_158 SB 020 AM/AJS/APA/A		SA 352 SA 352 SA 350 SA 351 45 Cr 1 SA 182 A 564-2	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316 74 type 63	closed systems only cification or Grade O cond. H110	0
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Joiting Ottle PRESSE	-08_05_8_s -13_38_8_s -AJW_09360_07_9_s -26_30_95_ AME_096_A -CAD_011	Serial No. or Identification /n_3 /n_5 /n_1B s/n_158 SB 020 AM/AJS/APA/A		SA 352 SA 352 SA 350 SA 351 45 Cr I SA 182 A 564- SA 193-	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316 74 type 63 B7/SA 194	closed systems only cification or Grade O cond. H110	0
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Joiting Ottal 2016	-08-05-8-s -13-38-8-s -13-38-8-s -AJW-09360-07-9-s -26-30-95AME-096-A -CAD-011	Serial No. or Identification /n_3 /n_5 /n_1B /n_1B /n_158 /n_158 /n_158 /n_158 /n_20 AM/AJS/APA/A WZ /n_2		SA 352 SA 352 SA 350 SA 351 45 Cr 1 SA 182 A 564- SA 193 SA 351 SA 351	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316 74 type 63 B7/SA 194	closed systems only cification or Grade O cond. H110	0
Hydrostatic Test (PS Pressure Retaining P Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Jolting Otton Prices Liner	-08_05_8_s -13_38_8_s -AJW_09360_07_9_s -26_30_95_ AME_096_A -CAD_011	Serial No. or Identification /n_3 /n_5 /n_1B /n_1B /n_158 /n_158 /n_158 /n_158 /n_20 AM/AJS/APA/A WZ /n_2		SA 352 SA 352 SA 350 SA 351 45 Cr I SA 182 A 564- SA 193-	Material Spe Incl. Type of LCB LCB LF2 CF3A Mo V 67 F 316 74 type 63 B7/SA 194	closed systems only cification or Grade O cond. H110	0

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

) (10/77)

^{*} 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.

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. N.A. Al-07-01 Signed G. Dikkers & Co NV Div. 1 1806 Sum. 176 (Date). Our ASME Certificate of Authorization No. 1806 To use the NV (NV) 1806 Symbol expires 1806 (Date)
CERTIFICATION OF DESIGN
Design information on file at General Electric and Perry I + II spares Stress analysis report (Class 1 only) on file at General Electric and Perry I + II spares
Design specifications certified by Boyd P. Brooks PE State California Reg. No. 13655 Stress report certified by Robert L. Weiss State California/Illinois Reg. No. M 14921/62-25749
Signature not required—list name only.
CERTIFICATE OF SHOP INSPECTION
the undersigned, holding a valid commission Issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Intavio (Lanada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on 10 October 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components. The equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for anytoperonal injury or property damage or a loss of any kind arising from or connected with this inspection. The Inspector of Boiler and Pressure Vessel Inspectors Inspector of Boiler and Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The State Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The University Co. Inspector of Boiler and Pressure Vessel Inspectors The University Co. The University

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NIS-2						REPLACEM	ENTS
PNPP No. 9308 F		quired by the Prov	risions of th	ne ASME C	ode Sect	ion XI	NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 5/15/07	
_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant:	Perry Nuc	ear Power Plant (I	PNPP)			Unit 1	
-	10 Center F	Road, Perry, Ohio	44081			200073621 & 20 (Repair Org. P.O. N	
3. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Symt	ool Stamp <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	
4. Identificatio	n of System: 1B2	1 Nuclear Boiler				Expiration Date 9	9120100
5. (a) Applicat	ole Construction Co	ode: ASME SECT	ION III CLA	ASS 1		,19 <u>74</u> Editi	on
WINTE	R 19 <u>75</u> ,				1, 272		<u>-</u>
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement		W75 lition Addenda	Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	NONE ilion Addenda	N/A Code Case(s)
	ble Edition of Secti		•	odification, o	or Replac	cements:	
	Responsibilities <u>F</u>	Cod	e Case(s)				
6. Identification	n of Components F	Repaired, Modified	, or Replac	cement 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
PIPING SYSTEM	GENERAL ELECTRIC	1821	64084	1B21F47F	1985	REPLACEMENT	YES
7 Description	of Work: Remover	Lvalve S/N 16097	3 and insta	lled valve S	/N 1608	75. Used 12 new in	lot stude
•						Continued in rem	
	cted: Hydrostatic	_		-	_		er- 🗌
Pressure 10	932 psi Te:	st Temperature 14	12	legrees F	Code	Case(s) <u>N/A</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: Used 16 new 1" hydra nuts HT# 591A and 2 new 5/8" nuts HT# 407C.
Used 16 new 1" studs HT# OG81
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
1, 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 May 20 07 Signed FENOC-PNPP 32 24 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 MAYIS, 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 arising from or connected with this inspection.
Date 515, 2007 Signed Thomas Jay Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

Manufactured by	<u>G. Dikk</u>	ers & C	O. NV. H	<u>lengelo</u>	(0) The	<u>Yetherla</u>	nd s	
Manufactured for	General	Electr	ic, San	Jose,	Californi	a		
	D	pne eme(I)	Address of P	urchaser of	Owner)			
Location of Installation		(N	ame and Add					
	6 471-6	/125.04	.03 rev.	. 6	80_		1979	
(CRN)	G471	(Drawing	No)		(Nat'l. Brd. No. 161	875	(Year Built)	
Valve(Mode	I No. Series No.1		Ide	entifying	Nos161	Certificate 1	Holder's Serial	No.1
Type	Safety/	Relief						140.7
Safety	Sefery Relief; Pil.			8"			10"	
Drifice Size	inch	Nominal	Inlet Size		inch	_ Outlet S	Size : 10"	nch
					,,,,,,			
Set Pressure (PSIG)	1180			Rated T	emperature _		585	
Stamped Capacity	917253				Overpressure			36.5
	Sal. Steam		2350				975	
Hydrostatic Test (PSIC					Outlet(Appl	cable to valv	es for closed sy	stems only
Pressure Retaining Pie	ces	Serial No		•		Materia	l Specification	
		Identifica					ype or Grade	<u>*</u>
							,,,	. — —
Body	_07.22.8_	sn_2			<u>SA 352</u>	<u> </u>	·	
Bonnet or Yoke	_04.07.8_	s.n_3			<u>SA 352</u>	? LCB		
Support Rods								
Nozzle	_AJW_037_				<u>SA 350</u>) LF2	·	
Disc	54.30.8	sn 1B			<u>SA 351</u>	CF3A		
Spring Washers	26.30.95	sn 77				Mo V 67	·	
Adjusting Screw	AME 028 /	MF 010				F 316		
Spindle	AJE 039				A 564-	·74 type	630 cond	. н1 100
Spring								
Polting	ANY/AJJ/A	YE/AVS	/AJK		<u>SA_193</u>	B-B7/SA	194-7/SA	194-2H
Энн еў: Рыссы й	_ AWZ/AJS//	MPA/AJL						
Liner	<u>56.17.8-2</u>) 			SA 351			
Cover	52.23.8-5	<u>) </u>			SA 351			
Vent. Pipe	AKE 008				SA 105			
Flanges	AFV 128 A				SAT 105	· · · · · · · · · · · · · · · · · · ·		

Max. outside length valve 1641 mm (64,60)"

(10/77)

^{*} 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.

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, Addendasuni_'76. Code Case NoN.A
CERTIFICATION OF DESIGN
Design information on file at General Electric and Perry Ll Stress analysis report (Class 1 only) on file atGeneral Electric and Perry Ll Design resulting to septimental and
PE State <u>California</u> Reg. No. <u>13655</u>
PE StateCaliforniaReg. No13655 Stress report certified by'Robert Weiss PE StateCalifornia/IllinoisReg. NoM 14921/62-25749
Signature not required—list name only.
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
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 NB 4305
Signed Commissions NB 4305 (Inspector) (Nat'l, Bd., State Prov. and No.)

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1B21-376 -

N	IS-2						REPLACEM	ENTS		
PNPP No.	9308 f	As re Rev. 9/11/00	quired by the Prov	USIONS OF U	ne ASME C		ion XI	NQI-1741		
1. Owne	1. Owner: FIRSTENERGY CORP Date 5/14/07									
		10 Center F		Sheet 1 of	2					
2. Plant	2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1									
10 Center Road, Perry, Ohio 44081 200073619 & 20 (Repair Org. P.O. N										
3. Work	Perfo	rmed By: <u>FIRSTE</u>					Type Code Symt			
		10 Ce	enter Road, Perry,	<u>Ohio 4408</u>	<u>31</u>		Authorization No Expiration Date §			
4. Identi	ficatio	n of System: 1B2	1 Nuclear Boiler		- the state of the		· 			
5. (a) Ap	plicat	ole Construction Co	ode: <u>ASME SECTI</u> NAME/SECT	ON III CL	ASS 1 DN/CLASS		,19 <u>74</u> Editi	on		
<u>w</u>	INTE	R 19 75	Addenda Code	Case(s) <u>1</u>	728, 1644-4	1, 272				
(b) C	onstru	ection Code used for	or repairs, modifica	ations, or r	eplacement		W75 ilion Addenda	Code Case(s)		
(c) A	SME (Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	NONE ition Addenda	N/A Code Case(s)		
(d) A _l	oplical	ole Edition of Secti	on XI Utilized for R	Repairs, M	odification, o	or Replac	ements:			
19	9 <u>89</u> ,	19 <u>N/A</u>	Addenda <u>N/A</u> Code	e Case(s)						
	_	Responsibilities <u>Fi</u>								
r		n of Components F	r 	· · · · · · · · · · · · · · · · · · ·			Descrip	ASME		
Compo		Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped		
PIPING SYSTE		GENERAL ELECTRIC	1B21	64084	1B21F47B	1985	REPLACEMENT	YES		
ļ										
	-									
	-	of Work: Removed K745 and 12 new					55. Used 12 new in	let studs		
		cted: Hydrostatic					_	er- 🗌		
Pressu	ıre <u>10</u>	032 psi Tes	st Temperature 14	12	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 NGI-1741
9. Remarks: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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 No33
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 15, 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 arising from or connected with this inspection.
Date 5/15, 20 07 Signed Thomas John Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (inspector) (National Board (include endorsements), and jurisdiction, and no.)

	PS Dedonion by the Lionizious of the Wo	Mt Code, Section III, DIV. I	1821-376
Manufactured by	G. Dikkers & Co. NV. Hengelo		PHOR
2. Manufactured for	General Electric, San Jose, (2 10 mm - 1 1	
Location of Installatio	 Perry I North Perry Oh 		· · · · · · · · · · · · · · · · · · ·
	G 471-6/125.04.03° rev. 4056	31 197	8.1
(CRN) Valve	(G471 (Drawing No.)	Nos	Bulit)
	Salety Relief Salety Relief	IN Certificate Holder's 8	Serial No.)
	84". Nominal Inlet Size 8" Inch	Outlet Size 10	inch
Set Pressure (PSIG)	1180 Rated	Temperature 585	•F
Stamped Capacity	917253 Ibs/hr @ 3	% Overpressure Blowdown (PSIG)	110.4
Hydrostatic Test (PSIC	-	Outlet975	and swaterns moly)
Pressure Retaining Pie	Serial No. or Identification	Material Specific	ation
		SA 352 LCB	
Body Bonnet or Yoke	.10.44.7 nr 6 .04.14.8 R 2	SA 352 ECB	
Support Rods		SA 350 LF2	
Nozzle	AEU 057	SA 350 CF2	
Disc	53, 03, 8 /4A	45 Cr Mo V 67	
Spring Washers	211653 11 AFU 102 AFU 091	SA 182 F 316	
Adjusting Screw Spindle	AEW 014	A 564-74 type 630 cor	nd H1-100
Spring Bolting Cther Pieces	AJR, AJJ, AUP, AKA, ALR, AUY, AMR, AJM, AJL	SA 193-B7/SA 194-7/SA	194-2H
Liner	61, 15, 8 sn1	SA 351 CF3A	
Cover	55.50.7 sn7	SA 351 CF8M	
Vent. Pipe	AFW 039	SA 105	
Flanges	AFV 033 AFV 064	SA 105	
Max. outside di	am. valve body 478mm(18	. 7411)	
Max. outside le	ngth valve 1643mm(64	. 68")	

(10/77)

^{*} 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)

				CEH	HEICA	lit	OF	COL	MPL	IANC	E

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction Edition, Addendasum, *76 (Date) of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974

Code Case No

symbol expires

Date 10-11-78 Signed

G. Dikkers & Co. N.Y.

by W.M. Willems

Our ASME Certificate of Authorization No.

1st July, 1980 (Date)

1806 to use the

CERTIFICATION OF DESIGN

General Electric and Perry Design information on file at

Stress analysis report (Class 1 only) on file at General Electric and Perry

Boyd P. Brooks. Jesian specifications certified by

California

Reg. No.

Stress report certified by!

Robert L. Weiss

PE State California/Illinois

Reg. No

M14921/62-25749

13655

* 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 Ohio Kemper Ins. and the State or Province of and employed by Long Grove III

have inspected the pump, or valve, described in this Data Report on 10-11 , 19 78 , and state that to the best of my knowledge and belief, the Manufacturer has con 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 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 demage or a loss of any kind arising from or connected with this inspection.

Date 10-11 19 78

[gned Timespector] 19 Commissione NB 4456
[Inspector] NB 4456
[Inspector] [Inspector] NB 4456

	NIS-2		R'S REPOR				REPLACEMI	ENTS
P	NPP No. 9308							NQI-1741
1	. Owner:	FIRS	TENERGY CORP.				Date <u>5/14/07</u>	
	_	10 Center I		Sheet 1 of	2			
2	Plant: _	Perry Nuc	ear Power Plant (I	PNPP)			Unit 1	
	-	10 Center I	Road, Perry, Ohio	44081			200073620 & 20 (Repair Org. P.O. N	
3.	. Work Perfo	ormed By: FIRSTE					Type Code Symb	
		10 <u>C</u> (enter Road, Perry,	Onio 4408	<u>51</u>		Authorization No Expiration Date 9	
	. •	•					Expiration Date 3	3120100
4.	Identificatio	on of System: 1B2	1 Nuclear Boiler					<u>-</u>
5.	(a) Applica	ble Construction Co	ode: ASME SECT	ION III CL	ASS 1		19 <u>74</u> Editi	on
	WINTE	R 19 75			728, 1644-4	1. 272		
	(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacement			
	(c.) ASME	Code Section XI ap	onlicable for Inserv	ice Inspec	tion:	1989	ition Addenda NONE	Code Case(s) N/A
	(c) NOME	odde ocedion za ap	pricable for inserv	пос тізрес			tion Addenda	Code Case(s)
	• ,	ble Edition of Secti		•	odification, o	or Replac	ements:	
		19 <u>N/A</u>	Cod	e Case(s)				
		Responsibilities <u>F</u>						
6. r	Identificatio	n of Components F	Repaired, Modified	·	cement Com	nponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
-		OFNEDN	1001	No.	10015170	1005	or Modification	Stamped
	PIPING SYSTEM	GENERAL ELECTRIC	1821	64084	1B21F47D	1985	REPLACEMENT	YES
t								
F								
-	<u></u>							
L			·					
7.	•	·					6. Used 12 new in	
							. Continued in rema	
8.	Test Condu	•			•	Ū		er- 🗌
	Pressure 10	<u>032</u> psi Tes	st Temperature 14	12 0	legrees F	Code	Case(s) <u>N/A</u>	
							·	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NOI-1741
9. Remarks: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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 15 May 20 07 Signed FENOC-PNPP PLAN (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 MAY 15, 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 arising from or connected with this inspection.
Date 5 15, 20 07 Signed Thomas Program Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

	As Required by the Provisions of the A	SME Code, Section III, Div. 1 1821 - 372
. Manufactured by	G. Dikkers & Co. NV. Henge	lo (O) The Netherlands
. Manufactured for	(Name and Address of N Certification)	nte Holder) , California
. manaractured for	(Name and Address of Purchase	r or Owner)
. Location of Installatio	n Perry I North Perry Ohio	
	(Name and Address) G 471-6/125.04.03 rev. 6	30 1978 (Nat'l, Brd. No.) (Year Built)
(CRN)	(Drawing No.)	(Nat'l, Brd. No.) (Year Built)
. Valve	G471 Identifyir	ng Nos. 160856 IN Certificate Holder's Serial No.)
Y	Satety/Relief	(A Celiment Holder 2 Serial No.)
Safety	y, Safety Relief; Pilot; Power Actuated	10"
Orifice Size	inch Nominal Inlet Size	Outlet Size 10"
Set Pressure (PSIG)		Temperature 585 °F
Stamped Capacity _	917253 lbs/hr @3	% Overpressure Blowdown (PSIG)36,7
II. A. A. S. T. A. IDCII	2350	975
Hydrostatic Test (PSI	•	Outlet(Applicable to valves for closed systems only)
Pressure Retaining Pic	Serial No. or	Material Specification
	Identification	Incl. Type or Grade
Body	10.04.8 sn_1	
Bonnet-or Yoke	03.06.8_R2	SA_352_LCB
Support Rods		0.050.150
Nozzle	<u>NEU 063</u>	SA 350 LF2
Disc	53.04.8 3A	SA 351 CF3A
Spring Washers	26.30.59-50	45 Cr Mo V 67
Adjusting Screw	AFU 038 AFU 074 AEW 015	SA 182 F 316 A 564-74 type 630 cond. H1100
Spindle	WEM 012	7 304-74 type 030 cond. 11100
Spring	AUP/AJR/AKA/AJJ/ALR/	SA 193-B7/SA 194-7/SA 194-2H
Bolting	AUY/AMR/AJM/AJL	3/1 133 DIT 3/1 1/
Other Rietes Liner	53.16.8 sn 1	SA 351 CF3A
Cover	55.46.7 sn 2	SA 351 CF8M
Vent. Pipe	VEN 033	CA TOS
Flanges	AFV 044 AFV 001	SA 105

Max. outside diam. valve body 479 mm (18.86)"

Max. outside length valve 1647 mm (64.84)"

(10/77)

^{*} 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.

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. N.A. Date 81-06-25 Signed G. Dikkers & CO NV by William Div. 1. (Date) (In Certificate Holder) Our ASME Certificate of Authorization No. 1806 to use the NV (NV)
symbol expires 1st. July 1980 (Date)
CERTIFICATION OF DESIGN
Design information on file at General Electric and Perry II Stress analysis report (Class 1 only) on file at General Electric and Perry II
Design specifications certified by' PE State California Reg. No. 13655 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, PA and employed by Kemper Ins. of Long Grove III have inspected the pump, or valve, described in this Data Report on 17-11 19 78 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date 6-26 19 81.

_ Commissions _

NB 4805

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

	NIS-2	NR-1 OWNE As re	ER'S REPOR					ENTS		
Ŀ	PNPP No. 9308 I	Rev. 9/11/00	· · · · · · · · · · · · · · · · · · ·					NQI-1741		
1	1. Owner:	FIRS	TENERGY CORP.				Date <u>5/12/07</u>			
l		10 Center I		Sheet 1 of	2					
Ì										
2	2. Plant: _	Perry Nuc	lear Power Plant (I	PNPP)	,,,,		Unit <u>1</u>			
		10 Center F	Road, Perry, Ohio	44081			200073623 & 20			
							(Repair Org. P.O. I	vo., etc.)		
3	3. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Syml	ool Stamp <u>NR</u>		
		10 Ce	enter Road, Perry,	Ohio 440	<u>31</u>		Authorization No	33		
							Expiration Date	9/28/08		
4	Identificatio	n of System: 1B2	1 Nuclear Boiler							
		-			ACC 4		4074 5 122			
ס	. (a) Applicat	ole Construction Co	NAME/SECT				19 <u>74</u> Editi	on		
	WINTE	R 19 <u>75</u>	Addenda Code	Case(s) 1	728, 1644-4	, 272				
	(b) Constru	uction Code used fo	or repairs, modifica	ations, or r	eplacement		W75 Addenda	Code Case(s)		
	(c.) ASME	Code Section XI ap	policable for Inserv	ice Inspec	tion:	1989		N/A		
	(0)///						ition Addenda	Code Case(s)		
	, , , , ,	ble Edition of Secti		•	odification, o	or Replac	cements:			
	19 <u>89</u> ,	19 <u>N/A</u>		e Case(s)						
		Responsibilities Fi								
6.	. Identificatio	n of Components F	Repaired, Modified	, or Repla	cement Con	ponents				
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code		
	Component	Manufacturer	Seliai No.	No.	10.	Dunt	or Modification	Stamped		
ı	PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F51B	1985	REPLACEMENT	YES		
	010727	CCCOTTO						 		
	· · · · · · · · · · · · · · · · · · ·									
7	Description	of Work: Removed	Lvalve S/N 160860) and insta	alled valve S	/N 16086	S2 Used 12 new in	let studs		
٠.	·	OG84 and 12 nev						ict stags		
8.		cted: Hydrostatic						er- []		
	Pressure 10	Ť	st Temperature 14		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: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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, 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 08
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION 1. Thomas G Laps

Manufactured by _		rs & Co. 1					etherlar	nd s		·
Manufactured for		Electric,				rnia				
ocation of Installati		(Name and Addr			(Jwner)					
Location of Installati	C 171 67	1 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ya Xaala	<u>pa)</u>	<u>-</u>				0	
(CRN)	<u> </u>		164.		39 (Nat'l Br	- N- 1	·	(Year	78	
Valve	G471	(Drawing No.)	. Ider	ntifying N	•	u. 140 j	160862	(Tear	вищ	
Mod	safety/R	olief	1001	ring i		(N	Certificate H	lolder's S	erial No	.)
			<u></u>				·	<u> </u>		
Orifice Size	ty. Selety, Relief; Pilo	Nominal Inlet	Cira	8"			Outlet S	10)"	
	inch	14óinmai mac	3128 _		inch		Outlet 3		inch	1
							·	585		· · · ·
Set Pressure (PSIG	1190		<u></u> -‡	Rated Te	mperatu	ire			' : ————	·
Stamped Capacitý .	934933	lbs/hr @	<u> </u>	%	Overpre	ssure	Blowdown	(PSIG)	45.2	
Hudrostatio Tast (DC	Set. Steam	23	350·		s Suelae			. 975	ō "	1.
dydrostatic Test (PS Pressure Retaining P			~~~		Outlet _	(Applic	able to valve	s for clos	ed syster	ms only)
ressure netaining r	10Ces	Serial No. or		:	℃ .	,	Material	Specific	ation	* · · · · ·
		Identification						be or Gr		
	12.1(12	· · · ·			C A	25.3	LCB			
Воду	13.46.7 s					352			· · ·	· · ·
Ionnet.or Yoke	13.24.8 s	/n 3			<u> 28</u>	352	LUB		····	
Support Rods	- AEII 052					-7E-71	T-17			
lozzle	AEU 053					350		<u> </u>		~ ~~~
Лвс	61.03.8 s						CF3A		· · ·	
pring Washers	26.30.95	-					10 V: 67			
djusting Screw	AFU 099/A	FU 028					F 316	690-		
ipindle	YEM 010				Α :	004-7	4 type	630 CC	ona - 1-	11100
pring					·C·A	102	D7-/CA-1	04-7-40	·	\
lolting	_AVT/AJR/A	KAZAJJZALF	}		2A	193-	B7/SA 1	94-7/3	A 194	i – ZH
Apar Pacax	_AUY/AMR/A	JM/AJL			c A		CF3A			
		/n_2			SM		-			
Cover		/n_1					CF8M		- 1	
					- JA	- 105 -				
Vent. Pipe Flanges	AKE 002									

. (10/77)

^{*} 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.

CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1. 1974 Edition, Addenda SUM. 76 (Date) Date 81. 07.03 Signed G. Dikkers & CO NV by Robbo.
Our ASME Certificate of Authorization No
OFFICIATION OF DECICAL
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 Robert L. Weiss Stress report certified by California/Illinois Reg. No. PE State Reg. No. PE 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 Inspectors and the State or Province of Ohio and employed by Kemper Ins. of Long Grove III have inspected the pump, or valve, described in this Data Report on 28-11 19 78 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components. By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date 7-8 Signed Commissions NB-4205 INST'I Bd. State Prov and No.)

1

	NIS-2	•		-			REPLACEM	ENTS
PÌ	VPP No. 9308 I		quired by the Prov			Jue Secti		NQI-1741
1.	Owner:	FIRS	TENERGY CORP.				Date <u>5/14/07</u>	
		10 Center I	Road, Perry Ohio	44081			Sheet 1 of	2
		•						
2.	Plant: _	Perry Nuc	lear <u>Power Plant (</u>	PNPP)			Unit 1	
	_	10 Center I	200073617 &200081980 (Repair Org. P.O. No., etc.)					
3.	Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Syml	ool Stamp <u>NR</u>
		10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33
							Expiration Date	9/28/08
4.	Identification	on of System: 1B2	1 Nuclear Boiler					
5.	(a) Applicat	ole Construction Co	ode: <u>ASME SECT</u> NAME/SECT				,19 <u>74</u> Editi	on
	WINTE	R 19 <u>75</u>	Addenda Code	Case(s) 1	728, 1644-4	1, 272		
	(c) ASME (d) Applica	uction Code used for Code Section XI apuble Edition of Section 19 N/A	oplicable for Inservon XI Utilized for F Addenda N/A	ice Inspec Repairs, M	tion:	Ed 1989 Ed	ition Addenda NONE Addenda	Code Case(s) N/A Code Case(s)
	(e) Design	Responsibilities <u>F</u>		e Case(s)				
6.	Identificatio	n of Components F	Repaired, Modified	, or Replac	cement 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	1821	64084	1B21F41F	1985	REPLACEMENT	YES
			_					
		:						
t								
	Description	of Work: Remover	L valve S/N 160869	and insta	lled valve S	/N 16087	1. Used 12 new in	Llet studs
	•	K745 and 12 new						ior orags
		cted: Hydrostatic					ressure- 🛛 Oth	er- 🗌
	Pressure <u>1(</u>	032 psi Te	st Temperature <u>14</u>	42 (łegrees 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: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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, <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 08 Date 14 May , 20 07 Signed FENOC-PNPP (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
t, <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 MAY 15, 20 51 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 15, 20 07 Signed Thermal & Commissions NB 9330 "N" "1" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

Manufactured by _		Hengelo_LUlne. N Certificate Holderi	Netherlands	
Manufactured for _	General Electric Sa	n Jose Californ	i.a	
ocation of Installat	ion Perry II North Perry	Ohio		
	(Name and A	Address)	1979	
(CRN)	<u>G 471-6/125,04,03 re</u> (Drawing No.)	V . 0	1979 No.) (Year Built)	
/alve	6471	Identifying Nos.	160871	
(Mo			(N Certificate Holder's Serial No.)	
TypeSate	Safety/Relief Ty, Safety Relief; Pilot; Power Actualed	· · · · · · · · · · · · · · · · · · ·		
Orifice Size	4,84" Nominal Inlet Si	8"	Outlet Size 10"	
51111ce 5120	inch	inch	inch	
	, 1165		585	
set Pressure (PSIG	1165	Hated Temperature	ure Blowdown (PSIG) 40,5	°F
Stamped Capacity	Sat Steam	% Overpressu	· · · · · · · · · · · · · · · · · · ·	
lydrostatic Test (Pt	2350	Outlet	975	
ressure Retaining I	•	IA	pplicable to valves for closed systems only	γ)
	Serial No. or	•	Material Specification	, ,
	Identification	9	✓ Incl. Type or Grade	
. 1	16.25.9 1	C 1 21	52.1.65	
ody	16.25.8 sn 1		52_LCB	
onnet or Yoke	<u>04.31.8 sn 2</u>	SA_3!	52 LCB	
milet of Toxo				
upport Rods	_AJW_023	SA_35	50 LF2	
upport Rods lozzie	_AJW_023	SA 35 SA 35	51 CF3A	
upport Rods lozzle isc	_AJW_023 _57.29.8 B1 _26.30.95-73	SA 35 SA 35 45 Cr	51 CF3A ^ Mo V 67	
upport Rods ozzle isc pring Washers	_AJW_023	SA 35 SA 35 45 Cr SA 18	51 CF3A ^ Mo V 67 32 F 316	
iupport Rods lozzle lisc ipring Washers idjusting Screw	_AJW_023 _57.29.8 B1 _26.30.95-73	SA 35 SA 35 45 Cr SA 18	51 CF3A ^ Mo V 67	
Support Rods Hozzle Disc Spring Washers Idjusting Screw	_AJW_023 _57.29.8 B1 _26.30.95-73 _AFU_062_AFU_001 _AJE_006	SA 35 SA 35 45 Cr SA 18 A 564	51 CF3A - Mo V 67 32 F 316 1-74 type 630 cond. H110(
Support Rods Hozzle Hozzle Hozzle Jisc Pring Washers Adjusting Screw Joindle Joring	AJW 023 57.29.8 B1 26.30.95-73 AFU 062 AFU 001 AJE 006	SA 35 SA 35 45 Cr SA 18 A 564	51 CF3A ^ Mo V 67 32 F 316	
upport Rods lozzle lisc pring Washers djusting Screw pindle pring olting	AJW 023 57.29.8 B1 26.30.95-73 AFU 062 AFU 001 AJE 006 ANY/AYE/AVS/ALR/AWZ/AMAJM/AJL/AJJ	SA 35 SA 35 45 Cr SA 18 A 564	51 CF3A - Mo V 67 32 F 316 4-74 type 630 cond. H1100 93-B7/SA 194-7/SA 194-2H	
upport Rods lozzle lozzle lisc pring Washers djusting Screw pindle pring olting	AJW 023 57.29.8 B1 26.30.95-73 AFU 062 AFU 001 AJE 006 ANY/AYE/AVS/ALR/AWZ/AMAJM/AJL/AJJ 67.17.8 sn 2	SA 35 SA 35 45 Cr SA 18 A 564 R SA 19	51 CF3A - Mo V 67 32 F 316 1-74 type 630 cond. H1100 93-B7/SA 194-7/SA 194-2H	
Support Rods Stozzle Sisc Spring Washers Sdjusting Screw Spring Spring Solting Stocker	AJW 023 57.29.8 B1 26.30.95-73 AFU 062 AFU 001 AJE 006 ANY/AYE/AVS/ALR/AWZ/AMAJM/AJL/AJJ 67.17.8 sn 2 53.28.8 sn 6	SA 35 SA 35 45 Cr SA 18 A 564 R SA 19 SA 35 SA 35	51 CF3A - Mo V 67 32 F 316 1-74 type 630 cond. H1100 93-B7/SA 194-7/SA 194-2H 51 CF3A	
Support Rods Hozzle Hozzle Joring Washers Joring Screw Joindle Joring Joring Joring Joring Joring Joring	AJW 023 57.29.8 B1 26.30.95-73 AFU 062 AFU 001 AJE 006 ANY/AYE/AVS/ALR/AWZ/AMAJM/AJL/AJJ 67.17.8 sn 2	SA 35 SA 35 45 Cr SA 18 A 564 R SA 19	51 CF3A - Mo V 67 32 F 316 1-74 type 630 cond. H1100 93-B7/SA 194-7/SA 194-2H 51 CF3A	

(10/77)

^{*} 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.

1B2/-380

NIS-2/NR-1 OWNE	R'S REPOR					ENTS	
PNPP No. 9308 Rev. 9/11/00				,		NQI-1741	
1. Owner: FIRS	TENERGY CORP.				Date 5/14/07		
10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2	
2. Plant: Perry Nucl	ear Power Plant (I	PNPP)			Unit <u>1</u>		
10 Center F	Road, Perry, Ohio	44081			200073624 & 200081986		
(Repair Org. P.O. No., etc.)							
3. Work Performed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Symb	ool Stamp <u>NR</u>	
10 Ce	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	33	
					Expiration Date 9	9/28/08	
4. Identification of System: 1B2	1 Nuclear Boiler						
5. (a) Applicable Construction Co					1974 Editi	00	
5. (a) Applicable Constituction Co	NAME/SECT	JON/DIVISIO	N/CLASS		19 <u>74</u>	011	
<u>WINTER</u> 19 <u>75</u> /	Addenda Code	Case(s) <u>1</u>	728 <u>, 1644-4</u>	, 272			
			· 		 		
(b) Construction Code used for	or repairs, modifica	ations, or r	eplacement		W75 Addenda	Code Case(s)	
(c) ASME Code Section XI ap	plicable for Inserv	ice Inspec	tion:	1989		N/A	
					tion Addenda	Code Case(s)	
(d) Applicable Edition of Secti		•	odification, d	or Replac	ements:		
19 <u>89</u> , 19 <u>N/A</u>	Cod	e Case(s)					
(e) Design Responsibilities F		D 1 -					
6. Identification of Components F	kepaired, Modified r	,	cement Corr	ponents		T 4645	
Name of Name of Component Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code	
		No.			or Modification	Stamped	
PIPING GENERAL SYSTEM ELECTRIC	1B21	64084	1B21F51D	1985	REPLACEMENT	YES	
						-	
		ļ					
7. Description of Work: Removed	l valve S/N 16085	7 and insta	alled valve S	/N 16089	96. Used 12 new in	let studs	
1-5/8" HT # OG84 and 12 nev	v 1-5/8" hydra nuts	s HT# 590.	A. Continue	ed in rem	arks.		
8. Test Conducted: Hydrostatic	- Pneumat	tic- 🗌 🔝 1	Nominal Ope	erating Pi	ressure- 🗵 Oth	er- 🗌	
Pressure 1032 psi Tes	st Temperature 14	42 (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 MQI-1741
9. Remarks: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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, <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 08 Date 14 May 20 07 Signed FENOC-PNPP July QC Tech. (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 MNUS, 20 01 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 15, 20 07 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

Manufactured by					NetherLand	S
	Conoral	e and Address Flacturic	of N Certific	ate Holder) a Californ	ri a	\$ 100 miles
Mahufactured for				e, <u>Californ</u> e or Owner)	<u> </u>	·—-···
Location of Installatio	n <u>Perry l</u>	+ spare	es North	Perry Ohio		
N/A .	6 471-67	125.04.03	nd Address) rev. 6	15	4 .	1979
(CRN)		(Drawing No.)	7.7	(Nat'l. Brd. N		(Year Built)
Valve	G471		Identifyir	ng Nos. 160	896	
Туре	No., Series No.) Safety/R	telief	1	. , 1	N Certificate Holds	er's Serial No.)
Safety	Safety Relief; Pilot	, Power Artuated			- 	
		Nominal Inlet	Size	(Flange)	Outlet Size	10"
	inch	•		inch		inch
Set Pressure (PSIG)	1190	1	Reted	I Temperature	· · · :	585
Stamped Capacity		lbs/hr @		% Overneed	re Blowdown (P	sig) 111,66
Capacity =	Sat. Steam	-		_ /0 Overpressu		975
		,	4511			
Hydrostatic Test (PSN		·	350	_ Outlet	olicable to unbias fo	
	3) Inlet		350	Outlet IAp		or closed systems on
Hydrostatic Test (PSN Pressure Retaining Plo	3) Inlet	Serial No. or	350	Outlet Ap	, Material Sp	or closed systems on pecification
	3) Inlet		350	Outlet JAp		or closed systems on pecification
Pressure Retaining Pic	3) Injet	Serial No. or Identification	"	j/Ap	Material Sp Incl. Type	or closed systems on pecification
Pressure Retaining Pic	6) Injet	Serial No. or Identification			Material Sp Incl. Type	or closed systems on pecification
Pressure Retaining Pic Body Bonnet or Yoke	3) Injet	Serial No. or Identification			Material Sp Incl. Type	or closed systems on pecification
Pressure Retaining Pic Body Bonnet or Yoke Support Rods	_03.24.8_s/_08.47.8_s/	Serial No. or Identification		SA' 3 SA_3	Material Sp Incl. Type 52 LCB 52 LCB	or closed systems on pecification
Pressure Retaining Pic Body Bonnet or Yoke Support Rods Nozzle	03.24.8 s/ 08.47.8 s/	Serial No. or Identification		SA 3 SA 3	Material Sp Incl. Type 52 LCB 32 LCB	or closed systems on pecification
Pressure Retaining Pic Body Bonnet or Yoke Support Ada Nozzle Disc	_03.24.8 s/_08.47.8 s/	Serial No. or Identification		SA 3 SA 3 SA 3 SA 3	Material Sp Incl. Type 52 LCB 52 LCB	or closed systems on pecification
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers	_03.24.8_s/_08.47.8_s/ _AJW 129 _51.09.9_s/_26.30.95_s	Serial No. or Identification n. 1		SA 3 SA 3 SA 3 SA 3 SA 3 45 C	Material Sp Incl. Type 52 LCB 52 LCB 50 L'F2 51 CF3A	or closed systems on pecification
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw	_03.24.8 s/_08.47.8 s/	Serial No. or Identification n. 1		SA 3 SA 3 SA 3 SA 3 SA 3 45 C SA 1	Material Sp Incl. Type 52 LCB 50 L'F2 51 CF3A n Mo V 67 32 F 316	or closed systems on secification or Grade
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle	13.24.8 s/ 08.47.8 s/ AJW 129 51.09.9 s/ 26.30.95 s CBA 057 CB	Serial No. or Identification n. 1		SA 3 SA 3 SA 3 SA 3 SA 3 45 C SA 1	Material Sp Incl. Type 52 LCB 50 L'F2 51 CF3A n Mo V 67 32 F 316	or closed systems on pecification
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring	AJW 129 51.09.9 s/ 26.30.95 s CAD 001	Serial No. or Identification n. I. n. I. n. 2B /n. 156 A. 008		SA 3 SA 3 SA 3 SA 3 SA 3 45 C SA 1 A 56	Material Sp Incl. Type 52 LCB 52 LCB 50 LF2 51 CF3A n Mo V 67 32 F 316 4-74 type 6.	or closed systems on secification or Grade
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Bolting	03.24.8 s/ 08.47.8 s/ AJW 129 51.09.9 s/ 26.30.95 s CBA 057 CB CAD 001	Serial No. or Identification n. I. n. I. n. 28 /n. 156 A. 008		SA 3 SA 3 SA 3 SA 3 SA 3 45 C SA 1 A 56	Material Sp Incl. Type 52 LCB 52 LCB 50 LF2 51 CF3A n Mo V 67 32 F 316 4-74 type 6.	or closed systems on secification or Grade
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Bolting		Serial No. or Identification n. I. n. 1. n. 28 /n. 156 A. 008	'APB/ANZ	SA 3 SA 3 SA 3 SA 3 45 C SA 1 A 56	Material Sp Incl. Type 52 LCB 52 LCB 50 LF2 51 CF3A n Mo V 67 32 F 316 4-74 type 6.	or closed systems on secification or Grade
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Bolling Other Pieces		Serial No. or Identification n. I. n. 28 /n. 156 A. 008 M/AJS/APA/Z n. 1	'APB/ANZ	SA 3 SA 3 SA 3 SA 3 45 C SA 1 A 56 SA 1 SA 3	Material Sp Incl. Type 52 LCB 52 LCB 50 LF2 51 CF3A n Mo V 67 32 F 316 4-74 type 6	or closed systems on secification or Grade
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Bolting Other Ricces Liner	-03.24.8.s/ -03.24.8.s/ -08.47.8.s/ 	Serial No. or Identification n. I. n. 28 /n. 156 A. 008 M/AJS/APA/Z n. 1	'APB/ANZ	SA 3 SA 3 SA 3 SA 3 45 C SA 1 A 56 SA 3 SA 3 SA 3	Material Sp Incl. Type 52 LCB 50 LF2 51 CF3A n Mo V 67 32 F 316 4-74 type 63 93-B7/SA 194 51 CF3A 51 CF3A	or closed systems on secification or Grade
Pressure Retaining Plo Body Bonnet or Yoke Support Rods Nozzle Disc Spring Washers Adjusting Screw Spindle Spring Bolting Other Pieces Liner Cover		Serial No. or Identification n. I. n. 1. n. 28 /n. 156 A. 008 M/AJS/APA/ Z. n. 1. n. 2.	'APB/ANZ	SA 3 SA 3 SA 3 SA 3 45 C SA 1 A 56 SA 1 SA 3	Material Sp Incl. Type 52 LCB 50 LF2 51 CF3A n Mo V 67 32 F 316 4-74 type 63 93-87/SA 192 51 CF3A 51 CF3A	or closed systems on secification or Grade

10/77)

^{*} 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.

1	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	pr Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda Sum. 176
Code Case No. N.A	(Date)
Date 81-07-0	21 Signed G. Dikkers & Co'NV by trobba
,	(N Certificate Holder)
	ate of Authorization No
symbol expires	st. July 1980
	(Data)
	CERTIFICATION OF DESIGN
Design information	on tile at General Electric and Perry I + II spares
-	n (Class 1 only) on file at General Electric and Perry + 11 spares
Sireus Birulysis (epo	t (closs 7 driff on ma at
Design specifications	s certified by! Boyd P. Brooks
	126.5.5
Stress report certifie	Reg. No. 13033
State Cal	ifornia/Illinois Reg. No. M 14921/62-25749
Signature not requ	red—list name only.
	CERTIFICATE OF SHOP INSPECTION
I, the undersigned,	holding a yelid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Pro	vince of Ontavio (anada) and employed by Royal Indemnity Co.
of New Yarl	
10 October	19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has
constructed this pur	np, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.
By signing this certi	ficate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning
the equipment descri	ribed in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any
manner for day pers	sonal injury or property damage or a loss of any kind arising from or connected with this inspection."
Date 7- Vul	19 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Signed	ommissions N.B. 6653.
inspector	[Nat I. Bd., State Prov. and (40.)

afą.,

	NIS-2		ER'S REPOR				REPLACEM ion XI	ENTS
19	NPP No. 9308	Rev. 9/11/00						NQI-1741
1.	Owner:	FIRS	TENERGY CORP.				Date 5/14/07	
	_		Road, Perry, Ohio				Sheet 1 of	
Ì								
2.	Plant: _	Perry Nuc	lear Power Plant (PNPP)			Unit 1	
		10 Center I	Road, Perry, Ohio	44081			200073615 & 20	
							(Repair Org. P.O. I	Vo., etc.)
3.	Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Sym	bol Stamp NR
			enter Road, Perry,				Authorization No	
							Expiration Date	
		(0)					,	
4.	Identificatio	on of System: 1B2	1 Nuclear Boiler					
5.	(a) Applicat	ble Construction C	ode: <u>ASME SECT</u> NAME/SECT				,19 <u>74</u> Editi	on
	MAINTE	R 19 75			луссаss 728, 1644-4	1 272		
	441141	.K 19 15	Addenda Code	Case(s) 1	720, 1044	+, 212	• • • • • • • • • • • • • • • • • • • •	
	(b) Constru	uction Code used f	or repairs modifica	ations or r	enlacement	s: 107/	W75	
	(6) Constit	delion code asca n	or repairs, modified	100113, 01 1	срасстст		ition Addenda	Code Case(s)
	(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989		N/A
	(d) Applica	ble Edition of Secti	on XI I Itilized for F	Panaire M	ndification (Code Case(s)
		19 <u>N/A</u>		•	odinoadon, d	эт геріас	contents.	
			Cod	e Case(s)				
		Responsibilities <u>F</u> n of Components F		er Donlar	oment Cen			
υ. Γ		T	·	·		iponents		1 1015
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
\vdash		,		No.			or Modification	Stamped
•	PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1821F41B	1985	REPLACEMENT	YES
F					 		 	
\perp								
L					<u> </u>			
				ı		•		
卜								
L				L., .	<u> </u>			
							19. Used 12 new in	let studs
		K745 and 12 new	_					
		cted: Hydrostatic			•	•		er- 🗌
	Pressure 10	<u>)32 </u>	st Temperature 14	12 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: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
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 May , 20 07 Signed FENOC-PNPP 341 July OC Tech. (name of repair organization) (authorized representative) (little)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I. Thomas G. LACS,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 142 15 20 01 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 5/15, 20 07 Signed Thomas Lagran Commissions NB 9330 NTA Communication (National Board (include endorsements), and jurisdiction, and no.)

1. Manufactured by	G. Dikkers & Co. N.V. Henge (Name and Address of Manufacture		511
2. Manufactured for -G	eneral Electric San Jose C		. :
3. Location of Installatio	Name and Address of Purchaser or n Horth Perry, Ohio Pern		ar op e e e e e
4. (CBN)	(Name and Address) (471-6/125.04.04 (Drawing No.)	[Nat'l, Brd, No.) (Year Built)	78
5. Valve	G471 Identifying I	Nos. 160849 (Menutecturers' Serial No.)	
Туре	safety/relief , Satety Relief: Priot, Power Actuated		
	14.84" Nominal Inlet Size 8"	onch Outlet Size10	nch
6. Set Pressure (PSIG)	1165 Rated Te	emperature58	5 ° F
Stamped Capacity .	905732 Ibs/hr @ 12 - %	Overpressure Blowdown (PSIG) 9	6,2
Hydrostatic Test (PSIC	Sat Steam	O	75
7. Pressure Retaining Pie		Outlet . (Applicable to valves for closed sy	
, , , , , , , , , , , , , , , , , , ,	Serial No. or Identification	Material Specification Incl. Type or Grade	
	13.44.7.4.6		
Body	13.46.7.s/a.5		
Bonnet or Yoke Support Rods	02.26.8 s/o l		
Nozzle	AEU. 031	SA_350_LE2	
D:	53.03.8 s/n.2B	SA_351_CE3A	
Disc			
Disc Spring Washers	. 211653 s/n.18	. 45 Cr Ma V 67	
	211653 s/n.18	SA_182_F316	
Spring Washers	•	SA_182_F316	ond. H110
Spring Washers Adjusting Screw	AEU 043/AEU 063.	SA_182_E316 A564=74_type_630_c	
Spring Washers Adjusting Screw Spindle	AEU 043/AEU 063.	SA_182_E316 A564=74_type_630_c	
Spring Washers Adjusting Screw Spindle Spring	AEW 001	SA 182 F316 A 564-74 type 630 c - SA 193-87/SA 194-7/S	
Spring Washers Adjusting Screw Spindle Spring Bolting	AEW 001	SA 182 F316 A 564-74 type 630 c - SA 193-87/SA 194-7/S	
Spring Washers Adjusting Screw Spindle Spring Bolting Other Pieces	AEU 043/AEU 063 AEW 001 AUP, AJR, AKA, AJL, ALR, AUY, AMR, AJM 64.04.8 s/n 2 58.46.7 s/n 7	SA 182 F316 A 564-74 type 630 c SA 193-B7/SA 194-7/S SA 351 CF3A SA 351 CF8M	
Spring Washers Adjusting Screw Spindle Spring Bolting Other Pieces Liner Cover Vent pipe	AEU 043/AEU 063 AEW 001 AUP, AJR, AKA, AJL, ALR, AUY, AMR, AJM 64.04.8 s/n 2 58.46.7 s/n 7 AFW 030	SA 182 F316 A 564-74 type 630 c SA 193-B7/SA 194-7/S SA 351 CFDA SA 351 CFBM SA 105	
Spring Washers Adjusting Screw Sprindle Spring Bolting Other Pieces Liner Cover	AEU 043/AEU 063 AEW 001 AUP, AJR, AKA, AJL, ALR, AUY, AMR, AJM 64.04.8 s/n 2 58.46.7 s/n 7 AFW 030	SA 182 F316 A 564-74 type 630 c SA 193-B7/SA 194-7/S SA 351 CF3A SA 351 CF8M	
Spring Washers Adjusting Screw Spindle Spring Bolting Other Pieces Liner Cover Vent pipe Flanges	AEU 043/AEU 063 AEW 001 AUP, AJR, AKA, AJL, ALR, AUY, AMR, AJM 64.04.8 s/n 2 58.46.7 s/n 7 AFW 030	SA 182 F316 A 564-74 type 630 c SA 193-B7/SA 194-7/S SA 351 CFDA SA 351 CFBM SA 105	

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" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this valve conforms to the rules of construction
of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Stilli. '76 (Date)
Date 10-11-78Signed G. Dikkers & Go. N.V by W.M. Willems (Manufactyfer)
Our ASME Certificate of Authorization No
(Dote)

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 StateCaliforniaReg. No13655	
Stress report certified by' Robert L. Weiss PE State California/Illinois Reg. No. M14921/62-25749	
¹ Signature not required—list name only.	

CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of
of Long Grove III have inspected the pump, or valve, described in this Data Report on
10-11 1978 and state that to the best of my knowledge and belief, the Manufacturer has con-
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
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 / 19.78
Date 10-11

1821-382

NIS-	2/NR-1 OWNE	ER'S REPOR					ENTS
PNPP No. 9308			1510115 01 11	THE ASIVIE OF	oue seci		NQI-1741
1. Owner:	FIRS'	TENERGY CORP.				Date 5/14/07	
10 Center Road, Perry, Ohio 44081						Sheet 1 of	
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1							
10 Center Road, Perry, Ohio 44081 200174507 & 200247881 (Repair Org. P.O. No., etc.)							
						(Repair Org. P.O. r	vo., etc.)
3. Work Per	formed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Syml	ool Stamp <u>NF</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	33
						Expiration Date	9/28/08
4. Identificat	ion of System: <u>1B2</u>	1 Nuclear Boiler					
5. (a) Applica	able Construction Co	ode: ASME SECTI	ON III CLA	ASS 1		,1974 Editi	on
		NAME/SECT	TON/DIVISIO	N/CLASS			
WINT	ER 19 <u>75</u>	Addenda Code	Case(s) <u>1</u>	728, 1644-4	1, 272		
(h) Const	ruction Code used for	or repairs, modifica	ations or r	enlacement	e: 1974	W75	
(6) 001131	radion code asca i	or repuirs, modified	1110113, 01 1	срисстст		ition Addenda	Code Case(s)
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	NONE Addenda	N/A Code Case(s)
(d) Applic	able Edition of Secti	on XI Utilized for F	Repairs, M	odification,			0000 0000(0)
19 <u>89</u>	19 <u>N/A</u>						
(e) Desigi	n Responsibilities <u>F</u>		e Case(s)				
6. Identificati	on 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	GENERAL ELECTRIC	1821	64084	1B21F41K	1985	REPLACEMENT	YES
31315101	ELECTRIC						
ļ				ļ			
7. Description	of Work: Removed	I valve S/N 160888	3 and insta	illed valve S	/N 16088	33. Used 12 new in	let studs
•	# K745 and 12 new						
8. Test Cond	ucted: Hydrostatic	- Pneumat	ic- 🔲 1	lominal Ope	erating P	ressure- 🗵 Oth	er- 🗌
Pressure	1032 psi Tes	st Temperature <u>14</u>	12 c	legrees F	Code	Case(s) N/A	
						<u> </u>	

PNF	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PP No. 9308 Rev. 9/11/00 NQI-1741
9.	Remarks: Used 16 new 1" hydra nuts HT# 591A. Used 16 new 1" studs HT# OG81
N(O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BE	ING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Not	e: 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	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
F	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION ,
tl S C	he 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 515, 20 01 Signed Thomas H. Commissions NB 4338 NTA OHIO (National Board (include endorsements), and jurisdiction, and no.)

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As Hequired by the Provisions of the ASME Code, Section III, Div. 1 1/3 2/-382 PAGE 2 QC

Manufectured by		Hengelo (0) The Netherlands
Manufactured for	General Electric,	an Jose, California
Location of last-Hatis	Perry 1 + 11 Spares	of Purchaser or Owner) North Perry Ohio
Location of Installation	G 471-6/125.04.03 9	
(CRN)	G471 (Drawing No.)	(Nat'l. Brd Not 3 (Year Built)
Valve(Mod	ol No. Solve No. / Relief	(N Certificate Holder's Serial No.)
IVDE		
Outflee Class	y, Safety Relief; Pilot; Power Actuated	8" (Flange) 10"
Orifice Size	Inch Nominal Inlet S	inch
Set Pressure (PSIG)	1165	Reted Temperature 585
Stamped Capacity _	005700	
premiped capacity -	905/32 Ibs/hr @_ 8st Steam 235	0 975
Hydrostatic Test (PSI		Outlet (Applicable to valves for closed systems only)
Pressure Retaining Pi	leçes	
	Serial No. or Identification	Material Specification : • Incl. Type or Grade
∱ ∂ody	05.19.8 s/n 4	SA 352 LCB
Bonnet or Yoke	01.12.8 s/n 0	SA 352 LCB
Support Rods		
Nozzie	AJW 085	SA 350 LF2
Disc	55.08.9 s/n 1B	SA 351 CF3A
Spring Washers	26.30.95 s/n 122	45 Cr Mo V 67
Adjusting Screw	ASB 103 ASB 018	SA 182 F 316
Spindle	APG 011	A 564-74 type 630 cond. H1100
Spring	•	
Bolting	ANY/ANZ/AJS/AJM/APB/A	NZ SA 193-B7/SA 194-7/SA 194-2H
•	CAL/AVS/ALR/AUY	
Other Plecex	53.40.8 s/n 1	SA 351 CF3A
Cover	53.23.8 s/n 9	SA 351 CF8M
Vent. Pipe	AWB 010	SA 105
Flanges		

: Max. outside length valve

(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.

CERTIFIC	CATE OF COMPLIANCE
We certify that the statements made in this report are	e correct and that this valve conforms to the rules of construction
of the ASME Code for Nuclear Power Plant Component	ts, Section III, Div. 1., 1974 Edition, Addenda Sum. 76
Code Case No N.A.	(0810)
Date 81.07.01 Signed G. Dikkers &	co NV by trobbac
Our ASME Certificate of Authorization No.	1806
lst July 1980	(NV)
symbol expires(Date)	
CERTIFIC	CATION OF DESIGN
Design information on file at Gener	al Electric and Perry I + II spares
	ral Electric and Perry I + II spares
- A see and year tapen (and a very) on me of	
Design specifications certified by Boyd	P. Brooks
PE State California	Reg. No13655
Rober Rober	t L. Weiss
ress report certified by 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 issue	ed by the National Board of Boiler and Pressure Vessel Inspectors
	and employed by Royal Indemnity Co.
	ected the pump, or valve, described in this Data Report on
	to the best of my knowledge and belief, the N Certificate Holder has
constructed this pump, or valve, in accordance with th	
By signing this certificate, neither the Inspector nor hi	is employer makes any warrant, expressed or implied, concerning
the equipment described in this Data Report. Furthern	more, neither the inspector nor his employer shall be liable in any
manner for any personal injury or property damage or	r a loss of any kind arising from or connected with this inspection.
Date 1 July 19 81	N.B. 6653.
Signed (Inspector)	Ommissions
(mapecion)	[[(Mail: Dd. State 1104 and 1401

1B21-383

	Rev. 9/11/00						NQI-174
. Owner:	FIRS	TENERGY CORP				Date <u>5/16/07</u>	
_	10 Center	Road, Perry, Ohio	44081			Sheet 1 of	3
. Plant:	Perry Nuc	lear Power Plant (F	PNPP)			Unit ONE	
(R	10 Center l epair Org. P.O. No., et	Road, Perry, Ohio 4 c.)	14081			ORDER 200170	1106
Work Perfo	rmed By: <u>FIRSTE</u>	ENERGY Nuclear Op	erating Con	npany PNPF	• -	Type Code Symb	ool Stamp
	10 C	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No.	
Identificatio	n of System [。] 1B2	1 NUCLEAR BOIL	FR SYSTE	FM (1B21)		Expiration Date §	9-20-00
	,	ode: <u>ASME SECTI</u>	ON III NB			,19 <u>74</u> Editio	on
WINTE	R 19 75			728, 272,10	544-4		
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacemen			
(c) ASME (Code Section XI a	pplicable for Inserv	ice Inspec	tion:	1989	Addenda	N/A
(d) Applica	ble Edition of Sect	ion XI Utilized for R	Repairs, M∈	odification,			Code Case
	EDITION	Code	ddenda e Case(s)	N/A			
(e) Design	EDITION Responsibilities <u>F</u>	Code Code CIRSTENERGY NU	e Case(s) CLEAR O	PERATING	COMPA	-	
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(e) Design Identification Name of Component VALVE	EDITION Responsibilities F n of Components I Name of Manufacturer ATWOOD MORILL	Coding Tender of the Coding Te	e Case(s) CLEAR O OR Replace Nat. Board No N/A	PERATING sement Cor Other ID 1B21 F028C	year Built 1976	Repair, Replacement, or Modification REPLACEMENT	Code Stamped YES
(e) Design Identification Name of Component VALVE	EDITION Responsibilities For of Components I Name of Manufacturer ATWOOD MORILL of Work: Replace	Coding Transfer of the	e Case(s) CLEAR O O O O O O O O O O O O O O O O O O O	PERATING cement Cor Other ID 1B21 F028C	year Built 1976	Repair, Replacement, or Modification	Code Stamped YES

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: Attack all applicable Magnifesturada Data Danasta Cumplemental abouta quab de lista di otaban ac
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 Sept 28", 20 08
Date 5/16/ 2007 Signed FENOC-PNPP (name of repair organization) (authorized representative) (title)
(name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, THOMAS G LARS,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 CT. have
inspected the repair, modification or replacement described in this report on MAY 16 20 67 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 5 6 20 07 Signed Thomas Indian Commissions NB 9330 NTA COULL.
(inspector) (National Board (include endorsements), and jurisdiction, and no)
and juristication, and no)

1B21-383 20F3

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

As Required by the Provisions of the ASME Code Rules 1. Manufactured by Atwood & Morrill Co. Inc., Salem, Mass. 01970 Order No. 13560-01 (Name & Address of Manufacturer) 2. Manufactured for General Electric Co., San Jose, California Order No. 205-AF774 (Name and Address) __Cleveland Electric Illuminating Co._ 5. Pump or Valve Identification Valve S/N 7-560 26" 575# Main Steam Isolation Valve For Service in Main Steam Piping System (Brief 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 586 °F 6. Design Conditions ____ 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. --Manufacturer Remarks Material Spec, No. (a) Castings S/N_7-560 SA216_WCB_ Quaker Alloy Body. RT# N2675 (b) Forgings Poppet SA350 Gr. LE-2 Cann & Saul S/N 8-560 Cover S/N 7-560 SA105 (QT) Cann & Saul

^{*}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)	5A540 Gr. B 23	Jos Dyson&Sons	Heat# 114188
·	Class_5		
Cover Nuts (18)		Jos.Dyson&Sons	Heat#134951
•	Class_5		
		,	
(d) Other Parts			
* 3/4 - Nipples (2)	SA106 Gr.B	U.S.Steel	S/N 7-560
* 45° Elbow	SA105	Vogt Mach.Co.	S/N_15-560
* Note: These items co			
and workmanshi	h. Dur are 1100	Turinner as fai	as design is
Body Poppet			
3. Hydrostatic test_21751450_	psi.		
***************************************	OPPRIESCATION OF S	NECLON	
	CERTIFICATION OF I	JESIGN	-
Design information on file atGenera	L Electric Co	San Jose, Cali	fornia_
Stress analysis report on file atAtwood			
Design specifications certified byRar	njit_Ranjan_Ghosh_	(1) Prof. Eng. State_C	alifReg. No. 16371
Stress analysis report certified byHe1	bert Cook	(I) Prof. Eng. State M	ass. Reg. No. 10981
(1) Signature not required. List name only.		*	
We are to be a discount of the state of			,
We certify that the statements made in this re	port are correct.		12 /1
Date 3-24 i9 76 Signed	Atwood&Morrill	Co. In CB / Port	with the
		vyvarivcy	control Manager
Certificate of Authorization No. N812	expires May 7,	_1977V	// /
			-
CER'	TIFICATE OF SHOP IN	SPECTION	
CER	THE CALL OF SHOT IN	or Editor.	
I, the undersigned, holding a valid commi	ssion issued by the Nation	nal Board of Boiler and Pre	ssure Vessel Inspectors
and/or the State of Province of Massach	usetts and empl	oyed by Hartford S	team Boiler Insp.
of Hartford, Conn.		ave inspected the equipmen	
Report on 3-24 19-76	_, and state that to the	best of my knowledge and	belief, the Manufacturer
has constructed this equipment in accordance By signing this certificate, neither the In	spector nor his employer n	nakes any warranty, expres	sed or implied, concern-
ing the equipment described in this Data Reportant for any personal injury or property dam			
	ange of a round of any time t	and the second s	
			_
	n	•	±0505
Date 3-24 19.76			
		•	
Descrit Comme	Commissions	Mass. 1264	Ohio Commission
(Inspector)	Commits stons	(National Board, State, Pr	ovince and No.)
Gerard Cocuzzo			

1821-383 3 of 3

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

	-		

1. Manufactured and conflied by At Wood 6 More ill Co. The 285 Canal Street, Salem IMA 01970

2. Manufactured for Cleveland Electric 10 Center Road, North Petry; Ohio 44081

3. Location of installation Perry Nuclear Power Plant; [O Center Rd., Dock No. 1, N. Perry OH: 4408]

| 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 |

Hemarks: *Duc prepared by A&M.: (A&M:S:0% 30693=01) Popper, for 26% MSIV Valve on Assembly

Dug [13560-01-M. Rev. I. This certification meets the requirements of ASME Section.

1974 Ediction NO Addenda :

B. Hom inickness (n.) 8-1/8". Min oesignithickness (n.) 4-310". Dia 10 (n.6 n.) N/A: Lengin overall (iii S. in.) 11/A

When appricable. Certificate Holders: Data Reports are attached for each item of this report

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	FORM N-2 (back)	81. 23.514.3
		Min Serier No. 5
	CENTIFICATION OF DESIGN	
Design specifications certified by		PE Siste CALIF Reg. no. 15587.
		그리고 그는 그리고 그는 그리고 그리고 그리고 그리고 하는데 그리고 했다. 스펙스로
Design report centiled by	Herbert Cook	P.E. State: MA Reg no EU981
	CERTIFICATE OF SHOP COMPLIANCE	
We comity that the statements made in the	s report are correct and that this (these). Popp	et
contorms to the rules of construction of th	역수 원리 기업 하면 되었다. 그는 경기에서 취임하는 그는 상대를 보고 있다. 그는 그 보고 있는 그 살고 있었다.	
NPT Certificate of Authorization No.	N2607	6-13-92
Date 1/25/9/ Name Acu00	N2607 Express d & Morrill Co., Inc. Signed	Bar A Sallan
	INF Corrigans received	
	CERTIFICATE OF SHOP INSPECTION:	
I the undersigned holding a valid commis-	ion issued by the National Board of Boiler and Pressur	
New York and employed by	H.S. 3.1. o I. Co.	
	ed these nems described in this Data Report on Lay	
III. Each part listed has been authorized for	stamping on the date shown above. Clor nor his employer makes any warranty, expressed	
in this Data Report. Furthermore, neither th	e inspector nor his employer shall be liable in any man	
loss at any kind arising from or connected y		
Date 1/45/9/ Signed 178	Commission	ons NO/1802 N NY SOC /-
	기념장이 되는 것이 되었다. 이 전환 전 보고 변환하철 모든 화면 2명 시간이 되었다. 사는 사고 전 시간 교육 한 출시를 했다.	

1B33-127 Ps 1 of 2

N	IS-2/NR						REPLACEM	ENTS	
PNPP No.	9308 Rev. 9/1		equired by the Prov	isions of tr		ode Secu	on XI	NQI-1741	
1. Owne	r:	FIRS	TENERGY CORP.				Date 4-27-07		
			Road, Perry, Ohio	44081			Sheet 1 of		
0 Di		Dores No.	toor Down Dloot (I	מאוטט			- 1 1 - 1		
2. Plant:			lear Power Plant (F Road, Perry, Ohio				Unit <u>1</u> 20006301	n	
		10 Center 1	toad, reny, Ollio	44001			(Repair Org. P O. N		
3. Work	Performed	By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	mpany PNPP	I •	Type Code Syml	ool Stamp <u>N</u>	<u>1R</u>
		10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33	
							Expiration Date	9-28-08	
4. Identif	ication of Sy	ystem:	Reactor Recircul	lation Syst	em 1B33		·····		
5. (a) Ap	plicable Cor	nstruction Co	ode: ASME NAME/SECT	Section III	Class 1 - N DN/CLASS	F	<u>,1974</u> Editi	on	
W	inter	1975 Adde	enda Code Case	e(s) _	1728,	<u>1644-4, 2</u>	72		_
(b) C	onstruction (Code used f	or repairs, modifica	ations, or r	eplacement		W75 tion Addenda	N/A Code Case(s)
(c) AS	SME Code S	Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989 Edi	N/A tion Addenda	N/A Code Case(s)
(d) Ap	plicable Ed	ition of Secti	on XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:		·
. 19	89, <u>N/A</u>	19 <u>N/A</u>	Addenda <u>N/A</u>	e Case(s)					
(e) De	sign Respo	nsibilities _	FENOC						
6. Identif	cation of Co	omponents F	Repaired, Modified,	, or Replac	cement Con	nponents			
Name Compo		Name of inufacturer	Manufacturer Serial No.	Nat, Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
Piping System	Gene	eral Electric	1B33	64076	1B33G70 64B (see remarks)	1985	Replacement	YES	
								t.	
7. Descri	otion of Wor	rk: Replace	100 KIP, E-System	ns snubber	r serial num	ber 60 (e	xisting) with replac	ement	
	serial numbe								
8. Test C	onducted:	Hydrostatic	- 🗌 Pneumat	ic- 🗌 1	Nominal Op	erating Pr	essure- Oth	er- 🗌	
Pressu	re <u>NA</u>	_psi Tes	st Temperature	<i>№A</i> c	legrees F	Code	Case(s) <u>N//</u>	4	

NIS-2/NR PNPP No. 9308 Rev.	R-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) 9/11/00 NQI-174
9. Remarks:	Functional Location number 1B33G7064B was originally installed as a General Electric
hanger nur	nber 1B33-G006-S369B as identified on isometric 34-0021-00001
drawings r report is in	applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or nay be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this cluded on each sheet, and (3) each sheet is numbered and the number of sheets is recorded of this form.
	CERTIFICATE OF COMPLIANCE
correct and the	atthys, 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 National Board Inspection Code "NR" rules.
	Certificate of Authorization No. 33 to use the "NR stamp expires 9-28-2008
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
	ps holding a valid commission issued by The National Board of Boiler and
	Inspectors and certificate of competency issued by the jurisdiction of <u>OHIO</u> y <u>HSB_CT.</u> have
	pair, modification or replacement described in this report on April 28 20 07 and state that to
	nowledge and belief, this repair, modification or replacement has been completed in accordance with
	ASME Code and the National Board Inspection Code "NR" rules.
By signing this c	ertificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the v	vork described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for a	any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 4/28.	20 07 Signed Thomas A Commissions NB 9330 "N"I"A" Ohio Comm (Inspector) (National Board (Include endorsements),

1B33-127 PG ZOFZ

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FORM NET MANUFACTURERS, DATA RESCRIFTOR COMPONENT SUPPORTS Q	
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5-Systems Inc., Montek Division, Schulcke GING Utch	
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Stear April 20 Résert or Leve Copy (0/2) Stear Crimbre by (1) Robert Lee Warren (1)	
Peson Utch Rig No. 3942	社会等級
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NIS-2	NR-1 OWNE						ENTS
PNPP No. 9308 F		equired by the Prov	isions of the	ne ASME Co	ode Secti	on XI	NQI-1741
1. Owner:	FIRS.	TENERGY CORP.				Date 4-27-	۰٥٦
		Road, Perry, Ohio	44081			Sheet 1 of	
2. Plant:		lear Power Plant (F				Unit 1	
_	10 Center F	Road, Perry, Ohio 4	14081	~		20006301 (Repair Org. P.O. N	
3. Work Perfo	ormed By: FIRSTE				• •	Type Code Syml	-
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No Expiration Date	
4. Identificatio	on of System:	Reactor Recircu	lation Syst	lem 1B33		·	
5. (a) Applicat	ble Construction Co	ode: ASME : NAME/SECT	Section III TON/DIVISIO	Class 1 - N DN/CLASS	F	<u>,1974</u> Editi	on
Winter							
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement		ition Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	oplicable for Inservi	ice Inspec	tion:	1989		N/A Code Case(s)
	ble Edition of Section	Addenda <u>N/A</u>	\	odification, o	or Replac	ements:	
	Responsibilities	Code	e Case(s)				
	n of Components F		, or Replac	cement 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
Piping System	General Electric	1B33	64076	1B33G70 66B (see remarks)	1985	Replacement	YES
7 Description	of Work: Replace	100 KIP E-System	es snubber	r serial num	her 59 (e	visting) with replac	ement
•	number 26 (new)				00, 00 12.	Algung Traines	<u>CHICIX</u>
3. Test Conduc	cted: Hydrostatic	- Pneumati	ic- 🗌 🗆 1	Vominal Ope	erating Pr	essure- Othe	er- 🗌
Pressure _	NA psi Tes	st Temperature	MM d	degrees F	Code	Case(s) N/A	1

PNP	NIS-2/N PP No. 9308 Re	NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) Rev. 9/11/00 NQI-1741
9. F	Remarks: _	Functional Location number 1B33G7066B was originally installed as a General Electric
	hanger n	number 1B33-G006-S371B as identified on isometric 34-0021-00001
Note	drawings report is	all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or is may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on tof this form
	orrect and the	CERTIFICATE OF COMPLIANCE 5 Matthys, certify that to the best of my knowledge and belief the statements made in this report are the repair, modification or replacement of the items described above conforms to Section XI of the ASME the National Board Inspection Code "NR" rules.
N	lational Board	rd Certificate of Authorization No. 33 to use the "NR stamp expires 9-28-2008 OC Supervisor (name of repair organization) (authorized representative) (title)
		CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
Pr	ressure Vess	Laps holding a valid commission issued by The National Board of Boiler and seel Inspectors and certificate of competency issued by the jurisdiction of OHIO
ins the Se By	nspected the inspected the inspection XI of the year of the years of the years of the years of the inspection of the years of years of the years of the years of the years of yea	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,
an	ny manner fo	work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in or any personal injury, property damage or loss of any kind arising from or connected with this inspection. Commissions NB 9330 "N"I"A" Ohio Comm (National Board (include endorsements), and jurisdiction, and no.)

1B33-128 P5292
(CORRECTED COPY)
FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS* As Required by the Provisions of the ASTAE Code Ruise, Section III, Division 1
1. worderung by E-Systems. Inc., Montek Division, Salt lake City, UT
2. Manufacture for General Flectric Company Sen Jose California Distriction of the selection Black Fox 2 R.S., Tulsa, Oklahoma 74102
4 ToentHeation (a) (b) (c) (c) (d) (d) (h) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
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Cor ASME Certificate of Authorization Na 1356 Symbol as prin (Date)
100 m
CERTIFICATION OF DESIGN E-Systems, Inc., Montek Division, Salt Lake City, UT Design Information on File at
Stress Report of Load Capacity Data Severi on File at: E-Systems, Inc., Montek Division, Salt Lake City, III Design Specification Cardified by (1) M.D. Potter PE Stress CA
Rep. No. 25904 Stress Analysis Pipport or Load Capacity Data Sheets Centified by (1) Robert Lee Warren III PE Stress Utah Rep. No. 3942
11) List name only, typasure not required.
Supplemental theret in form of little, skirther or drawings may as used a revised (1) sits in EN. in., (2) information in terms 1; 2, 4c, 4d an initial state of the state of
11778) This form (ECCCTS) is positioned from the Order Deor., ASME, 245 E, 47 St., New York, N.Y. 10017
C.53 W.

		FORM NF:1 (Back)
13.12.32 Pro	wince of	CERTIFICATE OF EMOP INEFECTION Tomision issued by the Northerd Soord of Boiler and Pressure Vessel Impactors and the Sura or ord employed by ROYAL Globe Ins. or New York. New York ord employed by ROYAL Globe Ins. or New York New York order of the temperature by the prestructed these component appears as the secondaries.
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	the undersigned; holding a walid to	CERTIFICATION OF RELD INSPECTION overplation lessed by the National Story of Boiler and Pressure Vessel Inspection and the State of th
	nd state that the parts released to repected by the end that to the best nce with the ASME Code for Nucleon	
		e Inspector ner his employer makes any verronny, expressed or implied, concerning the component or inspector ner his employer shall be liable in any man- urers' Dess Raport. Furthermore, neither the impactor nor his employer shall be liable in any man- my demaps or a less of any kind orbing from or bonnected with this impaction.
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NIS-2	NR-1 OWNE						ENTS	
PNPP No. 9308 F		quired by the Prov	visions of ti	ne ASME Co	ode Secti	on XI	NQI-1741	
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-2-2007</u>		
_	10 Center I	Road, Perry, Ohio	0 44081			Sheet 1 of	2	
2. Plant:		lear Power Plant (Road, Perry, Ohio				Unit <u>1</u> 20006301 (Repair Org. P.O. N		
3. Work Perfo	ormed By: <u>FIRSTE</u> 10 Co	NERGY Nuclear Op enter Road, Perry,			Туре (p <u>NR</u> 33	
4. Identificatio	on of System:	Reactor Recircu	lation Syst	em 1B33		· · · · · · · ·		
5. (a) Applicat	ole Construction Co	ode: ASME NAME/SECT	Section III	Class 1 - N DN/CLASS	F	,1974 Editi	on	
Winter								-
(b) Constru	uction Code used for	or repairs, modific	ations, or r	eplacement		W75 Addenda	N/A Code Case(s	s)
(c) ASME	Code Section XI ap	pplicable for Inserv	rice Inspec	tion:	1989 Edi	N/A Addenda	N/A Code Case(s	
. , , ,	ble Edition of Secti	Addenda <u>N/A</u>		odification, o	or Replac	ements:		
(e) Design	Responsibilities _							
6. Identification	n of Components F	Repaired, Modified	, or Replac	cement Corr	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	1B33	64076	1B33G70 65B (see remarks)	1985	Replacement	YES	
	of Work: Replace number 63 (new)	100 KIP, E-Systen	ns snubbei	serial num	ber 61 (e	xisting) with replac	ement	
8. Test Conduc	cted: Hydrostatic		_	•	_	ressure- Othe Case(s) N/	er- [] A	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-174
Remarks:Functional Location number 1B33G7065B was originally installed as a General Electric
hanger number 1B33-G006-S370B as identified on isometric 34-0021-00001
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, Russ Matthys 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 9-28-2008 Date 5-2-2007 Signed FENOC-PNPP (authorized representative) QC Supervisor (name of repair organization) (suthorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I. Thomas G. Laps

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Owner:	EIDO	STENERGY CORP.				Date 4/16/07	
. Owner		Road, Perry, Ohio				Sheet 1 of	
_		<u> </u>				onest <u>1</u> o,	`
. Plant:	Perry Nuc	clear Power Plant (I	PNPP)			Unit 1	
	10 Center	Road, Perry, Ohio	44081			Order 20025755	
						(Repair Org. P.O. N	Vo., etc.)
. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	mpany PNPF	-	Type Code Syml	bol Stamp
	10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33
						Expiration Date	9/28/08
Identificatio	on of System: C41	STANDBY LIQUID	CONTRO	DLS NC			
	·	ode: <u>ASME SECT</u>					on
(а) Арриса	nie Construction C	NAME/SECT	ION/DIVISIO	DN/CLASS		,19 <u>74</u> Editi	OIT
WINTE	R 19 75	Addenda Code	Case(s) *	N242,N272	,N413, N	<u>240, 1644-5,1644-8</u>	3
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacemen			Code Casi
(c) ASME (d) Applica 19 89 , (e) Design	Code Section XI apuble Edition of Sect19 N/A Responsibilities F	oplicable for Inservion XI Utilized for F Addenda N/A	ice Inspec Repairs, M e Case(s)	tion: odification,	1989 Ed or Replac	ition Addenda NONE ition Addenda cements:	N/A
(c) ASME (d) Applica 19 89 , (e) Design	Code Section XI apuble Edition of Sect19 N/A Responsibilities F	oplicable for Inservion XI Utilized for F Addenda <u>N/A</u> Cod irst Energy Corp	ice Inspec Repairs, M e Case(s)	tion: odification,	1989 Ed or Replac	ition Addenda NONE ition Addenda cements:	N/A Code Case
(c) ASME (d) Applica 19 89 (e) Design Identification Name of Component	Code Section XI apuble Edition of Sect 19 N/A Responsibilities Enrof Components F	oplicable for Inservion XI Utilized for F Addenda N/A Cod irst Energy Corp Repaired, Modified Manufacturer	Repairs, Marker Case(s) or Replace Nat. Board	odification, cement Cor	1989 Ed or Replace nponents	Repair, Replacement,	N/A Code Case
(c) ASME (d) Applica 19 89 (e) Design Identification Name of Component	Code Section XI apuble Edition of Sect 19 N/A Responsibilities En of Components For Name of Manufacturer PULLMAN	ion XI Utilized for F Addenda N/A Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Money Case (Sepairs) or Replace (Sepairs) Nat. Board (No.)	odification, cement Cor Other ID.	1989 Ed or Replace mponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
(c) ASME (d) Applica 19 89 (e) Design Identification Name of Component	Code Section XI apuble Edition of Sect 19 N/A Responsibilities En of Components For Name of Manufacturer PULLMAN	ion XI Utilized for F Addenda N/A Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Money Case (Sepairs) or Replace (Sepairs) Nat. Board (No.)	odification, cement Cor Other ID.	1989 Ed or Replace mponents Year Built	Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
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(c) ASME (d) Applica 19 89 (e) Design Identification	Code Section XI apuble Edition of Sect 19 N/A Responsibilities En of Components For Name of Manufacturer PULLMAN	ion XI Utilized for F Addenda N/A Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Money Case (Sepairs) or Replace (Sepairs) Nat. Board (No.)	odification, cement Cor Other ID.	1989 Ed or Replace mponents Year Built	Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
(c) ASME (d) Applica 19 89 (e) Design Identification Name of Component	Code Section XI apuble Edition of Sect 19 N/A Responsibilities En of Components For Name of Manufacturer PULLMAN	ion XI Utilized for F Addenda N/A Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Money Case (Sepairs) or Replace (Sepairs) Nat. Board (No.)	odification, cement Cor Other ID.	1989 Ed or Replace mponents Year Built	Repair, Replacement, or Modification	N/A Code Case ASME Code Stamped
(c) ASME (d) Applica 19 89 , (e) Design Identification Name of Component PIPING SYSTEM	Code Section XI apuble Edition of Sect 19 N/A Responsibilities For of Components For Manufacturer PULLMAN POWER of Work: REPLAC	pplicable for Inservion XI Utilized for F Addenda N/A Cod irst Energy Corp Repaired, Modified Manufacturer Serial No. C-41	Repairs, More Case(s) Or Replace Nat. Board No. 108	odification, cement Cor Other ID. 1C41- D0003	nponents Year Built 1985	Repair, Replacement, or Modification	ASME Code Stamped YES

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS PNPP No. 9308 Rev. 9/11/00	6 (Back)
9. VT-2 NOT REQUIRED. ONLY BOLTING WAS REPLACED ONE BOLT AT A TIME	Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-23: BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECE	-
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 through report 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, John messenger, certify that to the best of my knowledge and belief the statements made in this report a and the repair, modification or replacement of the items described above conforms to Section XI of the AS and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept. Date 16 April 20 07 Signed FENOC-PNPP Authorized representative)	ME Code
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas G Laps ,holding a valid commission issued by The National Board	1
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO	
and employed by HSB CT. of Hartford, Conn.	I
inspected the repair, modification or replacement described in this report on April 21, 20 07 and state the best of my knowledge and belief, this repair, modification or replacement has been completed in according	
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	dance will
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or imp	nlied
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall	
any manner for any personal injury, property damage or loss of any kind arising from or connected with this	
Date 421, 20 07 Signed Thomas & Commissions NB 9330 "N" "I" "A" Ohio (inspector) (National Board (include en and jurisdiction, and	Comm. dorsements),

:

16A1-037

	NIS-2		ER'S REPOR equired by the Prov					ENTS
F	NPP No. 9308 I							NQI-1741
1	. Owner:	FIRS	TENERGY CORP.				Date <u>5/1/07</u>	
	_		Road, Perry, Ohio	44081			Sheet 1 of	4
2	. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit 1	
		10 Center	Road, Perry, Ohio	44081			200166846	V1-X
l							(Repair Org. P.O. I	vo., etc.)
3	. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Con	npany PNPF	2	Type Code Sym	bol Stamp <u>NR</u>
		10 C	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No	o. <u>33</u>
							Expiration Date	9-28-08
4	. Identificatio	in of System: 1C4	1 Standby Liquid C	Control	· · · · · ·		· · · · · · · · · · · · · · · · · · ·	
5	. (a) Applical	ole Construction C	ode: <u>ASME Sectio</u>	n III NB			,19 <u>71</u> Edit	ion
			NAME/SECT	TON/DIVISIC	N/CLASS			
	Winter	19 72	Addenda Code	Case(s) <u>N</u>	I/A	_ 		
	(b) Constru	uction Code used t	or repairs, modifica	otions or r	onlacamon	to: 1071	Winter 72	N/A
	(b) Constit	oction code asso i	or repairs, modifica	ations, or re	еріасептеп		ition Addenda	Code Case(s)
	(c) ASME	Code Section XI a	oplicable for Inserv	ice Inspec	tion:	1989 Ed	N/A Ition Addenda	N/A Code Case(s)
	(d) Applica	ble Edition of Sect	ion XI Utilized for F	Repairs, Mo	odification,			code case(s)
	• , , , ,	N/A 19 N/A	Addenda <u>N/A</u>	·	•	,		
	(e) Design	Responsibilities F	Code IRSTENERGY Nuc	e Case(s) clear Opre	rating Com	pany PNF	PP	
6.	. ,		Repaired, Modified,					
ļ	Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
	Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
	Valve	Conax Corp.	N/A	113	N/A	1975	Replacement	Yes
	 		,					
l								
ŀ		· · · · · · · · · · · · · · · · · · ·				-		
								<u> </u>
			<u> </u>					
7.	Description	of Work: Replaced	d primer/trigger ass	embly with	Kit S/N 75	52EQ usir	ig trigger subassei	mbly
	S/N 5541 ar	nd inlet fitting S/N 5	5516. The squib va	lve asset is	s 1C41-F00	04B		
8.	Test Condu	cted: Hydrostatio	:- 🗌 Pneumat	ic- 🗌 N	lominal Op	•	_	er- 🗌
	Pressure N	<u>/A</u> psi Te	st Temperature <u>N</u>	<u>'A</u> d	egrees 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
O. Domaska
9. Remarks:
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
DENIE IN ELIT EST 7 HIS GOTTLOS HOLLOW FOR THE
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 1.1 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
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 1 May , 20 07 Signed FENOC-PNPP Mal Representative) Control of the interval of Authorized Indiana State (Indiana State) Control of State (Indiana St
(name of repair organization) (authorized representative) (litle)
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 <u>HSB CT</u> of <u>Hartford , CT</u> have
inspected the repair, modification or replacement described in this report on MAY 1 , 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 arising from or connected with this inspection.
Date 5/1 . 20 07 Signed Thorns & Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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٠.

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPLIPTEMANICES.

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

	Not to Exceed One	Day's Production		Pg. 1 of 2
Manufactured and certified by	IST Conax N	uclear, Inc. 402 Sonwil Driv		NY 14225
· :	V	(name and address of NPT Cert	ificate Holder)	
Manufactured for		GE Nuclear Energy Service (name and address of Purchaser)	ė	
<u> </u>		- 1949-		
Location of installation		Unknown (name and address)		
Times NOODON Days C	C 8 470704 C C 7	75 KSI N/A	N/A	2006
Type: N20000, Rev. G (drawing no.)	SA479/304SST (marl spec. no.)	(tensile strength)	(CRN)	(year built)

ASME Code, Section III, Division 1:		Summer 77	1	N/A
	(edition)	(addenda date)	(class)	(Code Case no.)
Fabricated in accordance with Const. Sp	Dec. (Div. 2 only)	Revision		Date
Remarks: Trigger Body Subassem	ably for explosive actuated val		્ટર્ adby Liquid Contr) Svetem
remarks. Trigger body Subusser	:	TO PERCEINE IN THE TOTAL	·	NAS.
	ble to ram. Press fit/seal on .3	28 & 4375 diameters. Over	all subassembly l	ength is 2.5
Pressure Test at 2800 psi fo	or 10 minutes.			
	·			
Nom. thickness (in.) See remarks Min.	design thickness (in.) See rer	narks Dia. ID (fl & in.) See	remarks Length ov	rerall (ft & in.)
When applicable, Certificate Holders' Da	la Reports are attached for each	item of this report:		
	1	· · · · · · · · · · · · · · · · · · ·	•	ر ۲۰۰۰
Part or Appurtenance	National Board No.	Part or App		National : Board No.
Serial Number	in Numerical Order	Serial N	lumber ·	in Numerical Order
	;			
(1) 7300	7300	(26)		
(2) 7301	7301 %	(27)		
(3) 7302	7302			
(4) 7303 (5) 7304	7303	(20)		
(6) 7305	7305			
(7) 7306	7306	Lann		
(8) 7307	7307	(33)		
(9)				
(10)				
(11)	<u></u>	(36)		······································
(13)		(20)		
(14)		(30)		
(15)		1 (40)		
(16)		(41)		
(17)		(42)		· · · · · · · · · · · · · · · · · · ·
(18)		(43)		
(19)	<u> </u>	(44)		
(20)		(45)		
(22)	-,	(46)		
1 1 /		(48)		
(23)				
(23)		(49)		
(23) (24) (25)		(49)		

"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.

A.S.M.E. 109137

Code Item

800

T 0 0 F3.

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

	Certificate Holder's	Senai Nos	300	Through	/30/
	CERTIFICATION OF DE	SIGN			
Design specifications certified by	George I, Skoda	P.E. State	CA	Reg. no	15847
	(when applicable)				
Design report* certifled by	Francis J. Domino	P.E. State	NY	Reg. no	36832
	(when applicable)				
	CERTIFICATE OF COMP	LIANCE			
We certify that the statements made in this repo			rigger Bod	Subassembly	
,					
conforms to the rules of construction of the ASM	TE Code, Section III, Division 1.				
NPT Certificate of Authorization No.	N-1850	Expires	Sej	tember 3, 2007	
			. 29	2/11/1	
Date 19/0//1006 Name	IST-Conax Nuclear	Signed 70	ul C	onzed topicscribitivo)	2 =
	(NFT Certificate Halder)		(#000	mzeu lepresentatiroj	
	CERTIFICATE OF INSPE	CTION			
I, the undersigned, holding a valid commission iss	used by the National Board of Boiler and Pr	essure Vessel Inspectors	and the Stat	e or Province of	
New York and employed by	dea by the Hallonia Board of Collect and the	HSB CT			
<u> </u>	n authorized for starriping on the date sho nor his employer makes any warranty, ex ither the imspector nor his employer shall	ort on OZ JU ourtenances in accordant own above. pressed or implied, con	ce with the	ASME Code, equipment	ite that to the
Date 0602-06 Signed Ollers	Authorized Inspector	enoissimn	NB 109	64AN NY 5057 ements) and state or	

FORM N-2 CERTIFICATE HOLDERS DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES As Required by the Provision

1400EB4(1 At(10 At45 At 1 of(12))
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

moracidica and car	tified by	IST Conax	Nuclear, Inc. 40:	dress of NPT Certif		NY 14225		
onufachura d f			orn to					
Manufactured for GE Nuclear Energy (name and address of Purchaser)								
nation of installation			·	known				
cation of installation				and address)				
pe: N38017 R	nv E	SA479/304SST	75 KSI N/A	,	NIA	21	005	
(drawing s		(mattl spec no.)	(tensile strength)		(CRN)	<u>_</u>	r built)	
, -								
SME Code, Section	III, Division 1:	77	Summer	77 ·	1		N/A	
•		(edition)	(addenda d		(class)	(Code	Case no.)	
bricated in accordar	ice with Const, Sp	ec. (Div. 2 only)		Revision		Date		
			(no)					
marks: Inlet Fitti	ing for explosive	actuated valve replacemen	nt kit for Standby	Liquid Contro	ol System	~		
				-				
				· · · · · · · · · · · · · · · · · · ·				
Pressure	Test at 2800 psi	for 10 minutes			A.			
			D: 10.	0.0:				
m. thickness (in.)	.040 Min.	design thickness (in.)	.031" Dia. 10 (π&m.)	B15" Length c	overall (fl. & in.)	2.245'	
nen applicable, Certi	ificate Holders' Da	ta Reports are attached for ea	ach item of this rep	ort:	C)	13		
		T				<i>™</i>		
	•		1 1			100		
Part or Appu	idenance	National ,		Part or App	urtenance	Natio		
Serial Nu		Board No.		Serial N		Board		
		in Numerical Order	1 1			in Numeric	an Oldel	
		}						
· · ·	7230	7230	(26)			<u> </u>	43	
· · ·	7231	7231	(27)			ļ	K. Po	
` '	7232	7232	(28)			-		
` '	7233	7233	(29)					
(5)	7234	7234	(30)			 		
/C)	7025						<u> </u>	
` '	7235	7235	(31)			 		
(7)	7236	7236	(32)					
(7) (8)	7236 7237	7236 7237	(32)					
(7) (8) (9)	7236 7237 7238	7236 7237 7238	(32)					
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(7) (8) (9) (10) (11) (12)	7236 7237 7238 7239 7240	7236 7237 7238 7239 7240 7241	(32) (33) (34) (35) (36) (37)					
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(7) (8) (9) (10) (11) (12) (13) (14)	7236 7237 7238 7239 7240 7241 7242	7236 7237 7238 7239 7240 7241 7242 7243	(32) (33) (34) (35) (36) (37) (38) (39)					
(7) (8) (9) (10) (11) (12) (13) (14) (15)	7236 7237 7238 7239 7240 7241 7242 7243	7236 7237 7238 7239 7240 7241 7242 7243 7244	(32) (33) (34) (35) (36) (37) (38) (39) (40)					
(7) (8) (9) (10) (11) (12) (13) (14) (15)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7244	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245	(32) (33) (34) (35) (36) (37) (38) (39) (40)					
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245	7236 7237 7238 7239 7240 7241 7242 7243 7244	(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42)					
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7244	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246	(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)					
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247	(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44)					
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248	(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44)					
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7248	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249	(32) (33) (34) (35) (36) (37) (38) (40) (41) (42) (43) (44) (45) (46)					
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250	(32) (33) (34) (35) (36) (37) (38) (40) (41) (42) (43) (44) (45) (46) (47)			(a)E		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7248 7249 7250	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250 7251	(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48)			(a)E		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (20) (21) (22) (23) (24)	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250 7251	7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250 7251	(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49)			GE GE		

*Supplemental information in the form of lists, sketches, 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.

109137

Code Item

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

	Certificate Holder	5 Serial 1905. 12	230	through	7254
			*		
Paris de l'Estimation	CERTIFICATION OF (
Design specifications cartified by	George I. Skoda	P E. State	CA	Reg. no	15847
	(when applicable)				
Design report certified by	Francis J. Domino	P.E. State	NY	Reg. no	36832
	(when applicable)				
	CERTIFICATE OF COM	DUMNICE			
We certify that the statements made in this r		FLIANGE	Intet F	ittings	
conforms to the rules of construction of the					
to mornio to the rates of construction of the A	ISME Code, Section III. Division 1.				
NPT Certificate of Authorization No.	N-1850	Expires	Sept	ember 3, 2007	
Date 11/10/05 Name	IST Community			Couch	(10.4.17)
	(NPT Certificate Holder)	Signed //		zed representative)	773.300
	CERTIFICATE OF INSP	ECTION			
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and P	ressure Vessel Inspectors a	atct2 adt ba	of Pravince of	
New York and employed by			ind the State	OI Fromice of	
	en authorized for stamping on the date shor nor his employer makes any warranty, e perither the inspector nor his employer shor	ort an http://link	e with the As	Hipmani	e that to the
Date	(Futhorized Inspector)	enoizzimm b6 ITaN]	NB 10964 (incl. endorsem	AN NY 5057 lents) and state or pro	ov and no.)

Hydro Guly St. Quy and

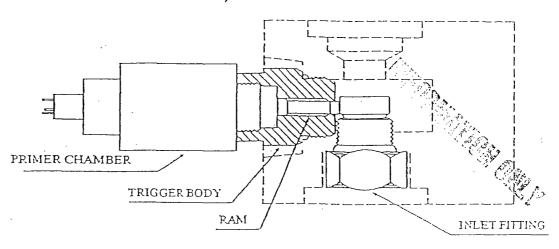


1041-037 SHERT 40F4

Tabulation Οf Materials

012

VALVE REPLACEMENT KIT P/N N27006-03



Trigger Body,		Ram		Primer Chamber		Inlet Fitting	
P/N:	N38018-01	P/N:	N-39012-01	P/N:	N38062-01	P/N:	N38017-01B
Vendor:	Dubose Natl.	Vendor:	Carpenter Tech	Vendor:	Dubose Natl.	Vendor:	Dubose Natl.
P.O. :	P93-S-574N	P.O.:	N91896	P.O.;	P93-S-574N	P.O. :	P93-S-377N
Heat No.:	151107	Heat No.:	53891	Heat No.:	151107	Heat No.:	12764
Control No	o.: 25075	Control No	o.: 24901	Control No	.: 25020	Control No	.; 24825
Trigger Subassembly N.B.S/N: 7300		SEP S/N: 1738		N.B. S/N: 7247			

Customer:

General Electric Nuclear Energy

Customer P.O.: 431002142 IST Conax S.O.: 7TZ800

Item No.:

008

MPL NO .: G.E. S/N: C41-F004

G.E.-752-EQ

IST Conax Nuclear Quality:/

Date: 16/3/2006

A.S.M.E. 109137

Code Item

1041-038 PS 1 of 2

NIS-	-2/NR-1 OWNE	ER'S REPOR equired by the Provi					ENTS
PNPP No. 9308		drillen by me i tow	1510115 01 11	HE ASIVIL C.		011 11	NQI-1741
1. Owner: _	FIRS	TENERGY CORP.				Date4-2	26-07
		Road, Perry, Ohio				Sheet 1 of	
2. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit <u>1</u>	
-	10 Center F		20017447 (Repair Org. P.O. N	1			
3. Work Per	rformed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP) -	Type Code Symt	bol Stamp <u>N</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	. 33
						Expiration Date 9	9-28-08
4. Identificati	tion of System: Stan	ndby Liquid Control	I C <u>41</u>				
	able Construction Co		n III Class			,19 <u>74</u> Editi	ion
Winter 197	Addenda	Code Case(s) <u>16</u>			N-240, N	413, 1644-3	
(b) Const	truction Code used fo	or repairs, modifica	ations, or re	eplacement		W75 lition Addenda	N/A Code Case(s
(c) ASME	E Code Section XI ap	oplicable for Inservi	ice Inspec	tion:	<u>1989</u> Edi	N/A Addenda	N/A Code Case(s
(d) Applic	cable Edition of Section	on XI Utilized for R	≀epairs, Mo	odification, r	or Replac	cements:	
1989	<u>N/A</u> 19 <u>N/A</u>		le Case(s)				
(e) Desigr	n Responsibilities _						
 Identification 	ion of Components R	Repaired, 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
Piping System	Pullman Power	C41	108	1C41F00 29B	1985	Replacement	Yes
	-						+
		 		 	-	-	
				<u> </u>	ļ	 	
			<u> </u>	<u> </u>	L	<u></u>	
Description	n of Work:Ins	tall replacement re	elief valve s	serial numb	er 4. Ser	rial number 6 was r	removed.
	lucted: Hydrostatic			Vominal Ope	erating P	ressure- 🛛 Oth	er- 🗌
Pressure 1	<u>1225</u> psi Tes	st Temperature <u>83</u>	<u>3</u> d	degrees F	Code	Case(s)N/A	Δ

NPP No. 9308 Rev 9/11/00			NQI-174
. Remarks:none			
drawings may be used	Manufacturer's Data Reports. S d, provided (1) size is 8 1/2 in. : each sheet, and (3) each sheet	x 11 in., (2) information in item	is 1 through 6 of this
	CERTIFICATE OF (COMPLIANCE	
correct and the repair, modifi-	certify that to the best of my knowl ication or replacement of the item ard Inspection Code "NR" rules.		
	Authorization No33		
Date 4-26,2007 Signed	FENOC-PNPP_	(authorized representative)	QC Supervisor (title)
Date 4-20,2007 Signor	(name of repair organization)	(admonzed representative)	
	CERTIFICATE OF INSPECTION	/INSERVICE INSPECTION	
I. THOMAS G. LAF	CERTIFICATE OF INSPECTION S,holding a valid	/INSERVICE INSPECTION commission issued by The Natio	onal Board of Boiler and
I. Thomas G. LAF Pressure Vessel Inspectors a	CERTIFICATE OF INSPECTION S, holding a valid and certificate of competency issu	/INSERVICE INSPECTION commission issued by The Natice and by the jurisdiction of	onal Board of Boiler and OHIO
I. Thomas G. LAF Pressure Vessel Inspectors a and employed byHST	CERTIFICATE OF INSPECTION Compelency issu Compelency issu Compelency issu Compelency issu	//INSERVICE INSPECTION commission issued by The Natic led by the jurisdiction of	onal Board of Boiler and OHIO have
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I, Thomas G. LAF Pressure Vessel Inspectors a and employed by HS1 inspected the repair, modificathe best of my knowledge and	CERTIFICATE OF INSPECTION	INSERVICE INSPECTION commission issued by The Nation led by the jurisdiction of of HARTFORD, CT this report on April 27 20 07 or replacement has been complete	onal Board of Boiler and OHIO have and state that to
I. Thomas G. LAP Pressure Vessel Inspectors a and employed by HST inspected the repair, modifica the best of my knowledge and Section XI of the ASME Code	CERTIFICATE OF INSPECTION S,holding a valid and certificate of competency issu B ation or replacement described in d belief, this repair, modification of and the National Board Inspection.	INSERVICE INSPECTION commission issued by The National Development of MARTFORD, CT this report on Apply 2007 or replacement has been completed to Code "NR" rules.	onal Board of Boiler and OHIO have and state that to ed in accordance with
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I. Thomas G. LAP Pressure Vessel Inspectors a and employed by HST inspected the repair, modifica the best of my knowledge and Section XI of the ASME Code By signing this certificate, neit concerning the work describe	CERTIFICATE OF INSPECTION S,holding a valid and certificate of competency issues at long the competency is and the National Board Inspectic ither the undersigned nor my emp	INSERVICE INSPECTION commission issued by The National Dept. of HARTFORD, CT this report on April 2007 or replacement has been completed to Code "NR" rules. sloyer makes any warranty, express the undersigned nor my emp	onal Board of Boiler and OHIO have and state that to ed in accordance with ssed or implied, loyer shall be fiable in

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1C41-038 PG2 OF2

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)

Manufactured by	TARGET ROCK CORP., 196	6E. Broadhol	low Rd., E. Farmingd	ale,
Manufactured for	Cleveland Electric III	uminating Co	., Cleveland, Ohio	
Location of Installat	perry NUTTES Add POWEY	mada a Attion Perr	y, Ohio	
	1 1/2 x 2 REH-S-3	738)	1982	
(CRN) Valve 76H-012	(Drawing No.)	(Naril, Brd., No.)	4 -	
Type Relief	Vaive	(M	anufacturers' Serial No.)	
Orifice Size5	ety, Salety Relief; Pilot; Power Actuated OO Norminal Inlet Size	1 1/2	Outlet Size 2"	
Set Pressure (PSIG	3) 1275	Rated Temperature	Diameter (DCIC)	_ °F
Stamped Capacity	Sat Steem lbs/hr @	% Overpressure		
Hydrostatic Test (PS	SIG) Inlet 3250	Outlet	3250 table to valves for closed systems only)	
Pressure Retaining I	Piecss	(дррік	sme to valves for closed systems only)	
-	Serial No. or		Material Specification	
	Identification		Incl. Type or Grade	
Body	300424		ASME-SA479-316L	
Bonnet or Yoke	300387		ASME-SA479-316	
Support Rods	200075			
Nozzle	202075		ASME-SA479-316L ASME-SA564, GR.63C	
Disc	_202989		ADIR-3A.704, GR. 031,	
Spring.Washers				
Adjusting Screw				
Spindle				
Spring Baltina	Nut Hex 3/8-16 UNC2B		ASME-SA194-2H	
Other Pieces				
Flange	202074		ASME-SA479-316L	
	d. 3/8-16 x I 1/2		ASME-SA193-B7	
Sarar Saak H.			ASMF_SA193_R7	



^{*} 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.

(1/76)

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

12,42

FORM NV-1 (Back)

CENTIFICATE OF COMPLIANCE				
We cartify 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. 1975				
Code Case No				
Our ASME Certificate of Authorization No. 1949 Fer G. Abruzzo, Mgr. Quality				
symbol expires 12/9/83 (Date)				
(Date)				
CERTIFICATION OF DESIGN				
Design information on file at Target Rock Corporation				
ousign mornidatin or me at				
Stress analysis report (Class 1 only) on file at				
Cesign specifications certified by Jan Paul Sockel				
PE State Pa. Reg. No. 20130E				
Stress report certified by				
PE State Reg. No				
neg. Wo.				
'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 New York and employed by ommercial Union Ins.				
of BOSTON, MASS. have inspected the pump, or valve, described in this Data Report on				
19' 82, and state that to the best of my knowledge and belief, the Manufacturer has con-				
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				
the equipment described in this Data Report. Furthermore, neither the Inspector nor his amployer shall be liable in any				
manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date				
Signed William & Mallin Commissions ALSO COMMISSIONED IN Penn., Ohio & Conn. (Net'l. Bd., State Prov. and No.)				



1E12-293

PAGE 1 OF 2.

1. Owner: FIRSTENERGY CORP. Date 11/10/06 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 200192906 [Repair Org. P.O. No., etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 33 Expiration Date 9/28/08 4. Identification of System: RESIDUAL HEAT REMOVAL 1E12 5. (a) Applicable Construction Code: ASME Section It class 2	NIS-2		ER'S REPOR				REPLACEM	ENTS
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1 10 Center Road, Perry, Ohio 44081 200192906 (Pepair Org P.O. No., etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Expiration No. 33 Expiration Date 9728/08 4. Identification of System: RESIDUAL HEAT REMOVAL 1E12 5. (a) Applicable Construction Code: ASME Section III class 2 NAME/SECTION/DIVISION/CLASS Winter 19 76 Addenda Code Case(s) N/A (b) Construction Code used for repairs, modifications, or replacements: 1974 W76 Edition Addenda Code Case(s) (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A Code Case(s) (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989 N/A 19 N/A Addenda N/A Code Case(s) (e) Design Responsibilities FirstEnergy Corp 5. Identification of Components Repaired, Modified, or Replacement Components Name of Components Repaired, Modified, or Replacement Components Name of Components Repaired, Modified, or Replacement Components Name of Manufacturer Serial No. No. 10. Built Replacement, Code Stamped No. No. 10. Built Replacement, Code Stamped Stamped Stamped Stamped Stamped No. 1980 Replacement Yes Williamette No. Serial No. Replacement S/N 1A018 Lincluding stuffing box and seal gland) Note the pump casing was not changed Installed 11/2" plug HT XGB.	PNPP No. 9308							NQI-1741
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1 10 Center Road, Perry, Ohio 44081 20192906 [Repair Org. P.O. No., etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 4. Identification of System: RESIDUAL HEAT REMOVAL 1E12 5. (a) Applicable Construction Code: ASME Section III class 2	1. Owner:	FIRS	TENERGY CORP.				Date 11/10/06	i
3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 10 Replacement, Proceed Section Name of Center Replacement Replacement, Perror Replacement, Or Modification or Replacement Security or Modification or Replacement Se	_	10 Center	Road, Perry Ohi	o 44081			Sheet 1 of	2
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	Pressure 45	<u>-</u>			•	_		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: ITEN 15 1E12C0003, MIT 7-9-07 TGL 7907
<u>~_</u>
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, <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 08
Date 10 Nov. 20 06 Signed FENOC-PNPP MM QC Tech. (name of repair organization) (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 ofOHIO
and employed by HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on Nov. 13, 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 11 13, 20 06 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

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Design Canditions Old Morking Pressure Trassure Retaining Pres Mark No. of Castings 147-17-4	ISO psi psi at los SA-351 CF8 SA-351 CF8	746 (1-1705-1-141-9) 100:F. pec. No.	Manufa Oual 1 - Cast Oual 1 - Cast	rujer Prosture Cless	Case Stuffing Seal GT	т Вох
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Design Conditions Gld Working Pressure Tressure Recaining Pressure Mark No. a) Castings 1:47-77-4 1:147-77-2	ISO psi psi at los SA-351 CF8 SA-351 CF8	746 (1-1705-1-141-9) 100:F. pec. No.	Manufa Oual 1 - Cast Oual 1 - Cast	rujer Prosture Cless	Case Stuffing Seal GT	i Box and
Design Conditions Gld Working Pressure Tressure Recaining Pressure Mark No. a) Castings 1:47-77-4 1:147-77-2	ISO psi psi at los SA-351 CF8 SA-351 CF8	746 (1-1705-1-141-9) 100:F. pec. No.	Manufa Oual 1 - Cast Oual 1 - Cast	rujer Prosture Cless	Case Stuffing Seal GT	i Box and
Design Conditions Gld Working Pressure Tressure Recaining Pressure Mark No. a) Castings 1:47-77-4 1:147-77-2	ISO psi psi at los SA-351 CF8 SA-351 CF8	746 (1-1705-1-141-9) 100:F. pec. No.	Manufa Oual 1 - Cast Oual 1 - Cast	rujer Prosture Cless	Case Stuffing Seal GT	i Box and
Design Conditions Gld Working Pressure Tressure Recaining Pressure Mark No. a) Castings 1:47-77-4 1:147-77-2	ISO psi psi at los SA-351 CF8 SA-351 CF8	746 (1-1705-1-141-9) 100:F. pec. No.	Manufa Oualli-Casi Oualli-Cas Oualli-Cas	rujer Prosture Cless	Case Stuffing Seal GT	i Box and

(

⁽¹⁾ For manually operated values only.

^{*} Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-12" to 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.

^(3/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y., 10077

FORM: NPV-1 (Back)

Mark No.	Malarial Spec. No.	Manu arar	arnants.
Balting			
8784	SA-193 B7	Metrix	Stud; Case
8785	SA-194-2H	Metrix	Nut. Fase
8785 0124	SA=193 BEM	Metrix.	Stud, Gland
8787	SA-194 BSM	Metrix	Nut & Gland
Α	5A-449 CT 2	Retefx	: Cápserew Bracket, Mot
A	SA-325 Tp 1	Metera	Bort, Pump
0610	1 2W-122 DA	Metrix	Taper Pin
P.O. 1-45565	SA-192 304	Familian	Plug, Drain
···			
(d) Other Parts (Se	al Circulation Piping)		
TH4051	SA=312-304	Tribe Sales	Pine
V10	I SA-182 304	Familian	Tee
V10	SA-182 304	Familian.	Elbow
AHA	SA-182 304	Familian	P T Q d
0637	SAE182 304	Metrix	Opifice
VDO, VFA, VKO	SA=182-304	-Familian	Union
			7

-9. Hydronistic test 225/900- pai

CERTIFICATE O	E COMPLIANCE
	rect and that this pump or valves conforms to the rules of
construction of the ASME Code for Nuclear Power Plant	Components: Section III Div. II Edition
Addenda W 78 Code Case No	Oate Oate
Signed Bingham-Willamette Company	by Constant of the Constant of
Our ASME Certificate of Authorization No. N=1.654	to use the N symbolexpires 2/28/83
	INCINEVI: IDetek
GERTIFICATIO	N OF DESIGN
Bingham u	ITI amette Company
AN AC	The state of the s
Street analysis report (Class Tonly) on file at 10/11	
Doging specifications conflied by (1) Hiram R	Repoert
PE State Penn Reg No. 249282	No extended in the extended to the control of the c
Suess unalysis certified by (1) Paul OFTA	er - Van Gulik Assoc
RESign Oregon Rog No. 6261	
(1) Signature not required busy name only:	
	And the second s
	er kenning i statet finde folken vider i år den en til i som en til statet folke i i statet i statet i statet Den bykning i til med kommen hadet betær til statet i st
CERTIFICATE-OF	SHOP INSPECTION:
I, the undersigned, holding a valid commission issued by i	
and the State or Province of Oregon	and employed by Department
of Commerce have inspecto	d the pump, or valve, described in this Data Report ons

By signing this certificate, belther the inspector nor his employer makes any warrenty expressed of implied concerning, the equipment described in this Data Report. Furthermors, neither the inspection nor his employer shall be liable in an expection or his employer shall be liable in an expection.

structed this pump, or valve, in accordance with the ASME Code, Section III.

1920, and state that to the best of my Frowledge and belief, the Manufactural has con-

IE12-294

	Rev. 9/11/00	squired by the riv		he ASME C	ode Seci	IOII XI	NQI-1741
	Rev. 9/11/00						NQI-1741
1. Owner: _	FIRS	STENERGY CORP.				Date 4/6/07	
	10 Center	Road, Perry, Ohi	o 44081			Sheel 1 of	1
2. Plant: _	Perry Nuc	clear Power Plant ((PNPP)		c	Unit 1	
_	10 Center	Road, Perry, Ohio	44081			200187255 (Repair Org. P.O. N	Vo., etc.)
3. Work Perfo	ormed By: _FIRSTE	ENERGY Nuclear Op	perating Cor	npany PNPP	• •	Type Code Syml	bol Stamp <u>I</u>
	10 C	enter Road, Perry	, Ohio 4408	<u>31</u>		Authorization No	33
						Expiration Date	9/28/08
I. Identificatio	on of System: RES	SIDUAL HEAT RE	MOVAL 1E	12			
5. (a) Applical	ble Construction C					,19 <u>74</u> Editi	on
NA/INITET	40.75		TION/DIVISIO		NOZO NO	75 NOOO NA40 476	\^ 4044 F
WINTE	IR 19 <u>75</u>	Addenda Code	: Case(s) _	N224,N242,	,N272,N2	?75,N282,N413,172	28, 1644-5
(b) Constru	uction Code used f	or repairs, modific	ations, or r	eplacement	is: 1971	W75	•
					Ed	ition Addenda	Code Case(
(c) ASME	Code Section XI ap	pplicable for Inserv	vice Inspec	tion:	1989		N/A
					Ea	ition Addenda	Code Case(
(d) Applica	ble Edition of Secti	ion XI Utilized for F	Repairs, M	odification, o			Code Case(
. ,	ble Edition of Secti	Addenda N/A	Α	odification, d			Code Case(
19 <u>89</u> ,		Addenda N/A		odification, d			Code Case(
19 <u>89</u> , (e) Design	19 <u>N/A</u>	Addenda <u>N//</u> Coo irst Energy Corp	A de Case(s)		or Replac	cements:	Code Case(
19 89 , (e) Design Identification Name of	19 N/A Responsibilities E n of Components F Name of	Addenda N// Coc First Energy Corp Repaired, Modified	de Case(s) d, or Replac	cement Con	or Replace	cements:	ASME
19 <u>89</u> , (e) Design Identification	19 <u>N/A</u> Responsibilities <u>F</u> n of Components F	Addenda N// Coc First Energy Corp Repaired, Modified	A de Case(s) d, or Replac	cement Con	or Replac	cements:	
19 89 , (e) Design Identification Name of	19 N/A Responsibilities E n of Components F Name of	Addenda N// Coc First Energy Corp Repaired, Modified	de Case(s) d, or Replac	cement Con	or Replace	Repair, Replacement,	ASME Code
19 89 , (e) Design Identification Name of Component PIPING	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN	Addenda N// Coc first Energy Corp Repaired, Modified Manufacturer Serial No.	de Case(s) d, or Replace Nat. Board No.	Other ID.	nponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identification Name of Component PIPING	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN	Addenda N// Coc first Energy Corp Repaired, Modified Manufacturer Serial No.	de Case(s) d, or Replace Nat. Board No.	Other ID.	nponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identification Name of Component PIPING	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN	Addenda N// Coc first Energy Corp Repaired, Modified Manufacturer Serial No.	de Case(s) d, or Replace Nat. Board No.	Other ID.	nponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identification Name of Component PIPING	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN	Addenda N// Coc first Energy Corp Repaired, Modified Manufacturer Serial No.	de Case(s) d, or Replace Nat. Board No.	Other ID.	nponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design Identification Name of Component PIPING SYSTEM	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN POWER	Addenda N// Cocirst Energy Corp Repaired, Modified Manufacturer Serial No.	A de Case(s) d, or Replace Nat. Board No. 83	Other ID. 1E12H06 66	nponents Year Built 1985	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design Identification Name of Component PIPING SYSTEM	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN	Addenda N// Cocirst Energy Corp Repaired, Modified Manufacturer Serial No.	A de Case(s) d, or Replace Nat. Board No. 83	Other ID. 1E12H06 66	nponents Year Built 1985	Repair, Replacement, or Modification	ASME Code Stamped
(e) Design Identification Name of Component PIPING SYSTEM	19 N/A Responsibilities E n of Components F Name of Manufacturer PULLMAN POWER	Addenda N// Cocirst Energy Corp Repaired, Modified Manufacturer Serial No. 1E12 ED NEW LOAD S	A de Case(s) d, or Replace Nat. Board No. 83	Other ID. 1E12H06 66	nponents Year Built 1985	Repair, Replacement, or Modification REPLACEMENT	ASME Code Stamped

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NGI-17-
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 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 6 APRIL., 20 07 Signed FENOC-PNPP Much Lyrin OC Tech. (name of repair organization) (authorized representative) (little)
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 April 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 arising from or connected with this inspection.
Date 46, 20 07 Signed Thomas Scale Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

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1E12-295

140. 93001	Rev. 9/11/00	•		, , , , , , , , , , , , , , , , , , , ,	ode Secti	1011 7 (1	NQI-1741
							7707-1741
1. Owner	FIRS					Date <u>4/7/07</u>	
	10 Center	Road, Perry, Ohio	o 44081			Sheet 1 of	1
2. Plant: _	Perry Nuc	lear Power Plant (PNPP)			Unit 1	
	10 Center	Road, Perry, Ohio	44081			200175667 (Repair Org. P.O. I	Vo., etc.)
B. Work Perfo	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP		Type Code Syml	bol Stamp <u>N</u>
	10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33
						Expiration Date	9/28/08
I. Identificatio	on of System: RES	SIDUAL HEAT REI	MOVAL 1E	12			
5. (a) Applical	ble Construction C	ode: ASME SECT	ION III CL	ASS 2		,19 <u>74</u> Editi	on
VACIANTE	.D 40.75				NIO 70 NIO	75 NOOO NI440 476	00 4014.5
AAIIATE	<u>19 /5</u>	Addenda Code	Case(s) _	N2Z4,NZ4Z	<u>,14272,142</u>	75,N282,N413,172	28, 1644-5
(b) Constru	uction Code used t	or repairs, modific	ations, or r	eplacement	s: 1971	W75	•
		•		•		ition Addenda	Code Case(
(c) ASME	Code Section XI a	pplicable for Inserv	rice Inspec	tion:	1000	NONE	N1/A
				don.	<u>1989</u> Ed	NONE Addenda	N/A Code Case(
(d) Applica	ble Edition of Sect	ion XI Utilized for F			Ed	ition Addenda	
		Addenda <u>N/A</u>	Repairs, M		Ed	ition Addenda	
19 <u>89</u> ,	19 <u>N/A</u>	Addenda <u>N/A</u> Cod	Repairs, M		Ed	ition Addenda	
19 <u>89</u> , (e) Design	19 <u>N/A</u> Responsibilities <u>F</u>	Addenda <u>N/A</u> Cod	Repairs, M A le Case(s)	odification,	Ed or Replac	ition Addenda cements:	
19 <u>89</u> , (e) Design Identificatio	19 <u>N/A</u> Responsibilities <u>F</u> n of Components I	Addenda <u>N//</u> Cod irst Energy Corp Repaired, Modified	Repairs, M A le Case(s)	odification, decision of the contract of the c	Ed or Replace nponents	ition Addenda cements:	
19 <u>89</u> , (e) Design	19 <u>N/A</u> Responsibilities <u>F</u>	Addenda <u>N//</u> Cod irst Energy Corp	Repairs, Monager Repairs, Monager Replacement (No. 1)	odification,	Ed or Replac	ition Addenda cements:	Code Case(
19 <u>89</u> , (e) Design Identificatio	19 <u>N/A</u> Responsibilities <u>F</u> n of Components I Name of	Addenda N//Codirst Energy Corp Repaired, Modified Manufacturer	Repairs, Maxue Case(s) or Replace Nat. Board	odification, of the control of the c	Ed or Replace nponents Year	ition Addenda cements: Repair, Replacement,	Code Case(ASME Code
19 89 (e) Design Identificatio Name of Component PIPING	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN	Addenda N// Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Male Case(s) or Replace Nat. Board No.	odification, ocement Con Other ID. 1E12H50	ed or Replace nponents Year Built	ition Addenda cements: Repair, Replacement, or Modification	ASME Code Stamped
19 89 (e) Design Identificatio Name of Component PIPING	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN	Addenda N// Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Male Case(s) or Replace Nat. Board No.	odification, ocement Con Other ID. 1E12H50	ed or Replace nponents Year Built	ition Addenda cements: Repair, Replacement, or Modification	ASME Code Stamped
19 89 (e) Design Identificatio Name of Component PIPING	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN	Addenda N// Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Male Case(s) or Replace Nat. Board No.	odification, ocement Con Other ID. 1E12H50	ed or Replace nponents Year Built	ition Addenda cements: Repair, Replacement, or Modification	ASME Code Stamped
19 89 (e) Design Identificatio Name of Component PIPING	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN	Addenda N// Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Male Case(s) or Replace Nat. Board No.	odification, ocement Con Other ID. 1E12H50	ed or Replace nponents Year Built	ition Addenda cements: Repair, Replacement, or Modification	ASME Code Stamped
19 89 (e) Design Identificatio Name of Component PIPING	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN	Addenda N// Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Male Case(s) or Replace Nat. Board No.	odification, ocement Con Other ID. 1E12H50	ed or Replace nponents Year Built	ition Addenda cements: Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identificatio Name of Component PIPING SYSTEM	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN POWER	Addenda N// Cod irst Energy Corp Repaired, Modified Manufacturer Serial No.	Repairs, Male Case(s) or Replace Nat. Board No. 83	Other ID. 1E12H50 02	ed or Replace nponents Year Built	ition Addenda cements: Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identificatio Name of Component PIPING SYSTEM	19 N/A Responsibilities E n of Components I Name of Manufacturer PULLMAN POWER	Addenda N/A irst Energy Corp Repaired, Modified Manufacturer Serial No. 1E12 ED NEW PSA-10	Repairs, Maxel Case(s) or Replace Nat. Board No. 83	Other ID. 1E12H50 02	Edor Replace	Repair, Replacement, or Modification REPLACEMENT	ASME Code Stamped

NIS-2/NR-1 OWNER'S REPORT FOR REP	PAIRS OR REPLACEMENTS (Back)
9. Remarks:	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE I	NTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CO	NCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's Data Reports. Sup drawings may be used, provided (1) size is 8 1/2 in. x 1 report is included on each sheet, and (3) each sheet is the front of this form.	1 in., (2) information in items 1 through 6 of this
CERTIFICATE OF CO	MPLIANCE
I, Michael J Tepsick , certify that to the best of my knowledge correct and the repair, modification or replacement of the items of Code and to the National Board Inspection Code "NR" rules.	
National Board Codificate of Authorization No. 22	to use the "NR stamp expires 28 Sept. , 20 08
Date 7 APRIL., 20 07 Signed FENOC-PNPP (name of repair organization)	Mirke J Zyra C OC Tech. (authorized representative) (title)
CERTIFICATE OF INSPECTION/IN	SERVICE INSPECTION
I, Thomas G Laps ,holding a valid co	mmission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued	
and employed by HSB CT.	
inspected the repair, modification or replacement described in this	s report on April 9, 2007 and state that to
the best of my knowledge and belief, this repair, modification or re	eplacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection (u)
By signing this certificate, neither the undersigned nor my employ	er makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither	
any manner for any personal injury, property damage or loss of ar	
Date 49, 2007 Signed Thomas Lagrange (inspector)	Commissions NB 9330 "N" "!" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)
<u></u>	

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1E12-296 P810f2

NIS	-2/NR-1 OWNE	ER'S REPOR					ENTS
PNPP No. 930	18 Rev. 9/11/00						NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 4-2	26-07
		Road, Perry, Ohio	44081	·		Sheet <u>1</u> of	2
2. Plant:	Perry Nuc	lear Power Plant (F	NPP)			Unit 1	
	10 Center I	Road, Perry, Ohio	44081			20017564 (Repair Org. P.O. I	
3. Work Pe	rformed By: <u>FIRSTE</u> <u>10 C</u>	NERGY Nuclear Op enter Road, Perry,			Туре (Code Symbol Stam Authorization No Expiration Date	np <u>NR</u>)33
4. Identifica	tion of System: 1E1	2 Residual Heat R	temoval		····		
5. (a) Applic	cable Construction Co	ode: <u>ASME Section</u> NAME/SECT	n III - Cls I	NF DN/CLASS		,19 <u>74</u> Editi	on
Winter 197	<u>5</u> Addenda Code Ca	se(s) <u>N-38, N-71-6</u>	6, N-71-9,	N-224-1, N-	225, N-2	49, N-272, N-413,	1728
(b) Cons	truction Code used for	or repairs, modifica	ations, or r	eplacement		ition W75 Addenda	NA Code Case(s)
(c) ASMI	E Code Section XI ap	pplicable for Inserv	ice Inspec	tion:	<u>1989</u> Edi	NA Ition Addenda	NA Code Case(s)
<u>1989</u> (e) Desig	cable Edition of Section of Section of NA 19 NA	Addenda <u>NA</u> Code ENOC	e Case(s)			ements:	
Name of Componer	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Johnson Controls	1E12	010	1H22H02 09 (see remarks)	1985	Replacement	Yes
7. Descriptio		place PSA ¼ mecl	<u>hanical sn</u>	ubber serial	number	(existing 34309) w	ith new
	bber serial number 2 ducted: Hydrostatic		ic- 🗆 N	Jominal One	eration P	ressure- Oth	er- 🗍
	•	st Temperature N		tegrees F	=	Case(s) N/	_

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
Remarks:Functional location number 1H22H0209 was originally installed as Johnson Controls hanger
number 1H22-P0004-H1043 as identified on isometric 814-0608-00906. Ref: JCI final N-5 data report
1E12-0066-F
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, Russ Matthys, 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 September 28, 2008
Date 4-26,2007 Signed FENOC-PNPP Cus Mattle QC Supervisor (name of repair organization) (authorized represervative) (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 CT have inspected the repair, modification or replacement described in this report on April 26 20 07 and state that to
inspected the repair, modification or replacement described in this report on FYN 26 20 01 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 4/26, 2007 Signed Thomas & Graph— Commissions NB 9330 NTA Commissions (National Board (include endorsements), and jurisdiction, and no.)

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	As Required by	the Provisions of the		د حاليون ويرث		· · - udr um a.	5
P. Manufacturad	⊷ Pacific So	Kin-Tech Division in the Light State of the Light S		lece Rivi.	Anabei	m. CA 9280	}
	B. M. Paragai		and address of N	PT Certificate Hol	der)		
	in the second second	known	end address of	purchaser or own	(•)		
Location of In Gentification	stellation						
(a) Component Support I.D.No	Registration	Drawings with or t	Idl iss Report Lord Capa Data Sheet	(e) Type of Component Support	(i)	(g) Nat I Board	(h)
(1) 28130	Life Control of the C		48 Pev B	Linear	1	NONE	Yeer Built 1982
(2) thru (3) 28199					Bulley (Se). Say ji basa		
(4)					Section of the sectio		
: (5) : (6)							
(7) (8)							
(g): (10):						SEP Qa.,	9 1882 *PP-3386
5; Pemerks					TEAST STATES	7	PH
	Was de la company						
		(4) されたたらましばというないはずい。				(1939-1916) - Principal (1916)	
Certify that the	stalements: made: in	CERTIFICATE (d that these co	ubousutt tabba	rts conform	to the rules of a	onitruction
Cost Care No.	for Nuclear Power Pl	this report eracorrect an ant Componenti: Section	dithat these co III, Division t	mponents suppo Edition 1974	Adde	winter	
	for Nuclear Power Pl	this report or correct or	d that these co III, Division 1,	предолитиров Естин 1974 Бу <i>ЯОЛА</i>	wâ.	winter	
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Code Care (40: Date	for Nuclear Power Pl	this report was correct an ant Components, Section Pacific Scientif (NOT Control of the	d that these co III, Division 1,	предолитиров Естин 1974 Бу <i>ЯОЛА</i>	L. A.S. U. G., T.	Nava "	
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THE REPORT OF THE PROPERTY OF	ITE OF SHOP INSPECTION
t, the undersigned, holding a valid commission issued by	the National Board of Boiler and Pressure Vestal Impactors and the State
Province of Pennsylvania and employed	HSBILI CO. of Hartford, CT
have Inspected the compr	onerf supports described in this Data Record on SEP 1 1982
i mai krita, iku kaning Georgia. Pida kaning alah batan di Paga dan Halah Matabasah, Himak ilika kaning di	the HPT Certificate Holder has constructed these component supports in secondary
with the ASME Code for Nuclear Power Plant Component	
By signing this certificate, neither the Inspector nor his er	mplayer makes any warranty, expressed or implied, concerning the componer
supports described in this Data Report. Furthermore, n	either the Inspector nor his employer shall be liable in any manner for an
personal injury or property damage or a loss of any k	ind ansing from or connected with this inspection.
0.1. SEP. 1 1982	
signed Eugenst Nigali-	61 1512/00 11-21
Signed Collaboration Verpula	Commissions 41-15/3/14-140-2101
	(Nat) Bd State frow and No.
CFRTIFICATI	ION OF FIELD INSPECTION
the undersigned, holding a valid commission issued by	the National Board of Boiler and Pressure Vessel Inspectors and the State of
bayolame bne.	οţ
	its in this Data Report with the described component supports and stat
tat the parts referred to as data items	not included in the certificate of shop inspection, have bee
한 도움이 보다면서 어떻게 되었다는데 이번, 스마스 전, 스마스 전, 스마스 이 그는 어때가 되지 않는데 보고 하지 않는데,	ief the NPT Certificate Holder has constructed these component supports in accord
nce with the ASME Code for Nuclear Power Plant Compor	rents
ing paramagan bernika ing milina pangkaran bitan pangkarah kan panyak bebagai ang	iplayer makes any warranty, expressed or implied, concerning the componer
200 전 시간 192 전 1 1일 하나 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the inspector nor his employer shall be liable in any manner for any persons
light of Fromity damage of a loss of any kind stising from or co.	nnected with this inspection
	수보다는 사람들은 마다 사람들은 전에 가지 않는 것이 되는 것이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
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1E12-297 Polo12

NIS-2/N						REPLACEME	ENTS
PNPP No. 9308 Rev.		equired by the Provi	isions or u	ie ASME Co	ode Secu	on XI	NQI-1741
1. Owner:	FIRS	STENERGY CORP.				Date 4-2	28-07
		Road, Perry, Chio	344081			Sheet 1 of	
2. Plant:	Perry Nuc	elear Power Plant (F	PNPP)			Unit 1	
	10 Center F	Road, Perry, Ohio	44081	*****		200168098 (Repair Org. P.O. N	
3. Work Performe					Type (Code Symbol Stam	
	10 Ce	enter Road, Perry,	Ohio 4408	<u>,1</u>		Authorization No.	
						Expiration Date 9	3-28-08
4. Identification of	System: 1E1	2 RESIDUAL HEAT	<u>T REMOV</u>	AL			
5. (a) Applicable (Construction Co	ode: <u>ASME Section</u> NAME/SECT	n III -Class	2 NC DN/CLASS		19 <u>74</u> Editio	on
Winter	19 <u>75_</u> Add	enda Code Case(s) <u>1644-5,</u>	1728, N-22	4, N-272	N-275, N-282, N-4	413,N-242
(b) Construction	on Code used for	for repairs, modifica	ations, or r	eplacement		W/75 lition Addenda	N/A Code Case(s
(c) ASME Cod	e Section XI ar	pplicable for Inservi	ice Inspec	tion:	1989 Edi	N/A Addenda	N/A Code Case(s
		ion XI Utilized for R	•	odification, c	or Replac	ements:	
19 <u>89 , N/</u>	19 <u>N/A</u>	Addenda <u>N/A</u>	de Case(s)				
(e) Design Res		ENOC		·			
 Identification 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
1	ULLMAN OWER	E12	83	1E12F00 63C	1985	REPLACEMENT	YES
							
		 					
			1		 		
'. Description of V	Vork: Replace	check SN 1-51906	i-A with SN	l 1-52969-B	<u> </u>	·	
B. Test Conducted	l: Hydrostatic	r- ☐ Pneumati	tic- 🗍 1	Nominal Ope	erating Pr	ressure- 🗵 Othe	er- []
				•	_		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
P. Remarks: NONE
IO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
lata: Attach all annicable Manufacturar's Data Penorte, Supplemental sheets such as lists, sketches, 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, Russ Matthys , 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 , 2008
Date 4-28-2007 Signed FENOC-PNPP (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 HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on april 28, 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 arising from or connected with this inspection.
Date 4/28, 20 07 Signed Thomas Commissions NB 9330 "N'A"A" Ohio Comm (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E12-297 P32 N2

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

Pg. 1 of _2

1. Manufactured and ce	rtified by: Weir Valve		c., 285 Canal St., Salem, N s of N Certificate Holder)	MA 01970
2. Manufactured for Fi	rst Energy Corporation, 10 Cer	nter Rd., P.O. Box 97, I	North Perry, OH 44081 dress of Purchaser)	
3. Location of installation	on_Perry Nuclear Power Plant,	10 Center Road, Doct	•	4081
4. Model No., Series No.	, or Type <u>Dual Plate Check \</u>	•	ing 50079-A	Rev. 06 CRN N/A
5. ASME Code, Section	III, Division 1: 1974 (edition)	Winter 1975 (addenda date)		N/A (Code Case no.)
6. Pump or Valve Valve		8 Outlet size	8 (in.)	
7. Material: Body <u>SA</u>	216-WCB Bonnet	N/A	Disk SA487-CA6NM	Bolting N/A
(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
1-52969-B	N/A	HT. #:87633	N/A	HT. #: 87506
		RT#: 75249		RT#: 75238 & 75240

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

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

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

Certificate Holder's Serial No. 1-52969-B 8. Design conditions $\frac{740}{\text{(pressure)}}$ psi $\frac{100}{\text{(temperature)}}$ ___ °F or valve pressure class _____ (temperature) 9. Cold working pressure 740 psi at 100°F 10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi 11. Remarks: Pin Retainers SA 479-410 HT# : 504420 TR# 1510 CERTIFICATION OF DESIGN P.E. State <u>PA</u> Reg. no. <u>24928-E</u> Design specification certified by Hiram R Reppert (when applicable) Design report certified by _____N/A P.E. State N/A Reg. no. N/A (when applicable) CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2606 Expires ______6-13-07 Name WEIR VALVES & CONTROLS USA INC.. (N Certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 9/29/20, 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

Commission MA 1657 A, B, N, T (Nat'l, Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

property damage or loss of any kind arising from or connected with this inspection.

Date 129/06 Signed Comm

(Authorized Inspector)

1E12-298 Pr142

		equired by the Provi					EN 12
PNPP No. 9308	J Rev. 9/11/00	<u> </u>				• .	NQI-1741
1. Owner:	FIRS	STENERGY CORP.				Date <u>5-2-07</u>	
-		Road, Perry, Ohio	44081			Sheet 1 of	
							 :
2. Plant: _	Perry Nuc	clear Power Plant (F	PNPP)			Unit 1	
-	10 Center	Road, Perry, Ohio 4	44081			200148638	
	, 					(Repair Org. P.O. N	Jo., etc.)
৭ Work Per	formed By: _FIRSTE	ENFRGY Nuclear Op	eratina Cor	mnanv PNPF	Yvpe (Code Symbol Stam	n NR
J. 172	-	enter Road, Perry,				Authorization No	. —
	 	omor no-	Orne	<u></u>		Expiration Date 9	
	· · · · · · · · · · · · · · · · · · ·	·				Expiration bate s	72000
 Identificati 	ion of System: 1E1	2 RESIDUAL HEA	T REMOV	AL			
5. (a) Applica	able Construction C					19 <u>74</u> Editio	on
Winto	1075 Addopdo	NAME/SECT			וא פלפיי	075 N 000 N 449	N 040
	er 1975 Addenda	` ' =				275, N-282, N-413,	
(b) Consu	truction Code used f	or repairs, mounica	itions, or it	eplacemen		W/75 lition Addenda	N/A Code Case(
(c) ASME	E Code Section XI ap	pplicable for Inserv	ice Inspec	tion:	1989		N/A
()		er i skrivanski i se se m	14			lition Addenda	Code Case(
, , , ,	cable Edition of Sect	•		odification,	or Replac	æments:	
	<u>, N/A</u> 19 <u>N/A</u>	Code	e Case(s)				
` '	n Responsibilities <u>F</u>						
i. Identification	ion of Components F	Repaired, Modified,	, or Replac	ement Cor	nponents		
Name of	Name of	Manufacturer Sorial No.	Nat. Board	Other	Year	Repair, Replacement,	ASME Code
Component	t Manufacturer	Serial No.	No.	ID.	Built	or Modification	Stamped
PIPING	PULLMAN	E12	83	1E12	1985	REPLACEMENT	YES
SYSTEM	POWER	!		F086		1	
		 	 	 	 		
			 		ļ		
			l'		<u> </u>		
Description	-f.Warty Poplace		^	11 520604	<u> </u>	<u> </u>	
. Description	n of Work: Replace	Check SIN 1-52 154	-A with Six	1-52909M			
T: + Cand		- Draumat	· ¬ ,	• =====	- C D	F71 Oth	
	ucted: Hydrostatic			·	-		er- [_]
	<u>145 </u>	st Temperature 71		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: NONE
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, Russ Matthys , 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 , 2008
Date 5-2-2007 Signed FENOC-PNPP (www. Matth.) QC Supervisor (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G. Laps , holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
and employed by HARTFORD STEAM BOILER CT. of HARTFORD, CT have inspected the repair, modification or replacement described in this report on MAY2, 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 arising from or connected with this inspection.
Date 5/2, 2007 Signed Through Commissions NB 9330 "N"I"A" Ohlo Comm (National Board (include endorsements), and funisdiction, and nc.)
CONTROL OF THE PROPERTY OF THE

1E12-298 Py2012

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>

						·····		·
1. Manufactured and	d certified by:	Weir Valves and			Canal St., Salem, M	A 01970		
			(name and addre	ss of N (Certificate Holder)			
2. Manufactured for	First Energy Corpora	ation, 10 Center F	Rd., P.O. Box 97, (name and ac					
3. Location of instal	lation_ <u>Perry Nuclear F</u>	Power Plant, 10 (Center Road, Doo	k No. 1,	North Perry OH 44	081		
			(name	and addi	ess)			
4. Model No., Series	No., or Type <u>Dual P</u>	Plate Check Valve	e Draw	ing 11	949-01	Rev.	04	CRN N/A
5. ASME Code, Sect	ion III, Division 1: 19 (edit		Winter 1975 (addenda dale)		(class)		/A Case no)	_
6. Pump or Valve	Valve Nominal	inlet size6	Outlet size	6				
		(in.)		(in.)				
7. Material: Body	SA216-WCB	Bonnet N/	'A	Disk	SA487-CA6NM	Bolting	N/A	
(a)	(b)		(c)		(d)		(e)
Cert.	Nat'l		Body		Bonnet		Dis	
Holder's	Board		Serial		Serial		Seri	
Serial No.	No.		No.		No.		No	•
1-52969-A	AVI		HT. #:87643		N/A		HT. #:8	7506
			RT#: 75242				RT#: 75: 7521	
								
								
								
			*					
								 ·
					<u> </u>			

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

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

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

Certificate Holder's Serial No. <u>1-52969-A</u>

8. Design conditions $\frac{740}{\text{(pressure)}}$ psi $\frac{100}{\text{(temperature)}}$ °F or valve pressure class	.s(1)
9. Cold working pressure 740 psi at 100°F	
10. Hydrostatic test 1125 psi. Disk differential test pressure 825	psi
11. Remarks: Pin Retainers SA 479-410 HT# : 504420 TR# 151D	
CERTIFICATION OF DESIG	БИ
	<u>PA</u> Reg no. <u>24928-E</u>
Oesign report certified by N/A (when applicable) (when applicable)	State <u>N/A</u> Reg. no. <u>N/A</u>
CERTIFICATE OF COMPLIAN We certify that the statements made in this report are correct and that pump or valve Section III, Division 1. N Certificate of Authorization No. N-2606 Date Name WEIR VALVES & CONTROLS USA INC. (N Certificate Holder)	conforms to the rules for construction of the ASME Code, Expires6-13-07
CERTIFICATE OF INSPECTI	ON
I, the undersigned, holding a valid commission issued by the National Board of Boiler Province of Massachusetts and employed by HSBCT of Har described in this Data Report on Massachusetts and state that to the has constructed this pump, or valve, in accordance with the ASME Code, Section III By signing this Certificate, neither the inspector nor his employer makes any warranty described in this Data Report. Furthermore, neither the inspector nor his employer st property damage or loss of any kind arising from or connected with this inspection. Date Signed Commission	tford, CT have inspected the pump, or valve, ne best of my knowledge and belief, the Certificate Holder . Division 1. // expressed or implied, concerning the equipment
Commission Cont Harris (Authorized Inspector)	Nail, Bd. (inct. endorsements) and state or prov. and no.)
· · · · · · · · · · · · · · · · · · ·	

(1) For manually operated valves only.

1E12-299 P810/2

NIS-2						REPLACEM	ENTS	
PNPP No. 9308		equired by the Prov	/ISIONS OF U	TE ASME C	oue Secti		NQI-1741	
1. Owner: _	FIRS	TENERGY CORP.				Date <u>5-2-07</u>		
_	10 Center	Road, Perry, Ohio			Sheet 1 of	2		
2. Plant:	Plant: Perry Nuclear Power Plant (PNPP)					Unit 1	***************************************	
_	10 Center	Road, Perry, Ohio	44081			200168096 (Repair Org. P.O. N	lo., etc.)	
3. Work Perfo	ormed By: <u>FIRSTE</u>				Y Type (Code Symbol Stam		
	10 C	enter Road, Perry,	Onio 4408	<u>) 1</u>		Authorization No Expiration Date §		
A T 1-1 MOT M			T DEMON	. Ā.	_	Expiration bate :		
	on of System: 1E1					·		
5. (a) Applical	ble Construction C	ode: <u>ASME Sectio</u> NAME/SEC1	n III -Class	S 2 NC ON/CLASS	· · · · · · · · · · · · · · · · · · ·	,19 <u>74</u> Editi	on	
Winter	1975_Addenda	Code Case(s) <u>1</u>	644-5, 172	28, N-224, N	1-272, N-	275, N-282, N-413	N-242	
(b) Constru	uction Code used f	or repairs, modific	ations, or r	eplacemen		W/75 Addenda	N/A Code Case(s)	
(c) ASME	Code Section XI a	oplicable for Inserv	rice Inspec	tion:	1989	N/A	N/A	
(d) Applica	ble Edition of Sect	ion XI Utilizad for F	Panaire M	odification		ition Addenda	Code Case(s)	
	N/A 19 N/A		·	ounication,	oi Kebiac	ements.		
	Responsibilities F	Cod	e Case(s)					
• • •	n of Components I		, or Replac	cement 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	
PIPING SYSTEM	PULLMAN POWER	E12	83	1E12	1985	REPLACEMENT	YES	
STOTEW	FOWER			F063A				
]				
7. Description	of Work: Replace	check SN 3-51001	-A with SN	1-52183-	\			
<u> </u>								
8. Test Condu	cted: Hydrostatio	:- 🗍 Pneumat	tic- 🗌 1	Nominal Op	erating P	ressure- 🛭 Othe	er- 🗌	
Pressure 15	5 <u>0</u> psi Te	st Temperature <u>N</u>	<u>OT </u>	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: NONE
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, Russ Matthys , 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 2008
Date 5-2-2007 Signed FENOC-PNPP Russ matty OC Supervisor
(name of repair organization) (authorized represspitative) (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 HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on MA 2, 20 01 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 5/2 , 20 0.7 Signed Themas I came Commissions NB 9330 "N"I"A" Ohio Comm (National Board (include endorsements), and jurisdiction, and no.)

1E12-299 P8292

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

Manufactured and certified by: Weir Valves and Controls USA Inc., 285 Canal St., Salem, MA, 01970 (name and address of N Certificate Holder)										
2. Manufactured for First Energy Corporation, 10 Center Rd. P.O. Box 97, North Perry, OH, 44081 (name and address of Purchaser)										
3. Location of installation Perry Nuclear Power Plant, 10 Center Road, Dock No. 1, North Perry OH. 44081										
(name and address)										
4. Model No., Series No., or Type <u>Dual Plate Check Valve</u> <u>Drawing 50079-A</u> Rev. <u>05</u> CRN <u>N/A</u>										
5. ASME Code, Section III	l, Division 1: 1974 (edition)	Winter 1975 (addenda date)	(Cor	N/A le Case no)						
6. Pump or Valve <u>Valve</u>	Nominal inlet size _	8 Outlet size 8	.)							
7. Material: Body <u>SA2</u> 5	fs-WC8 Bonnet	N/A Disk	5A487-CA6NM Bolting	AU1						
(a)	:(b)	(c)	(d)	(e)						
Cert.	Nat'l	Body	Bonnet	Disk						
Holder's	Board	Serial	Serial	Serial						
Serial No	No.	Na	No.	No.						
1-52183-A	A\/1	HT. #.04200	N/A	HT. #:04204						
1-32103-4		S/N: V614	12/4	S/N:V615 & V616						
		577. 1011		<u> </u>						
	-, 2-1	Maria Company								
										
										
										

^{*} 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 Orive, Box 2300, Fairfield, NJ 07007-2300.

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

Cerinicale noticer's Serial No. 1-32163-A
8. Design conditions 500 psi 480 °F or valve pressure class 300 (1) (pressure)
9. Cold working pressure 740 psi at 100°F
10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi
11, Remarks: Pin Relainers SA 479-410 HT# : G7190 TR# 127D
CERTIFICATION OF DESIGN
Design specification certified by <u>Hiram R. Reppert</u> P.E. State <u>PA</u> Reg. no. <u>24928-E</u> (when applicable)
(when applicable) Design report certified by N/A P.E. State N/A Reg. no. N/A (when applicable)
CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.
N Certificate of Authorization No N-2606 Expires 6-13-07
a/27/04
Date 17764 Name WEIR VALVES & CONTROLS USA INC Signed Aug Good Control of C
(t) Certificate Holder) Cauthonized resignations (
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 Dafa Report on 9/±2/09 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.
By signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arjsing from or connected with this inspection.
Date 9/27/04 Signed Cut Hereson Commission MA 1651 A. N. I. (Authorized Inspector) (Nath. Bd. (incl. endorsements) and state or prov. and no.)
(Authorized Inspector) (Nat1. Bd (Incl. endorsements) and state or proviand no.)

(1) For manually operated valves only.

1E12-300 PS/42

	NIS-2		ER'S REPOR equired by the Prov				REPLACEM	ENTS	
PNPF	No. 9308 F	Rev. 9/11/00		1310113 01 1	THE ASIME C			NQI-1741	
1. C	wner: _	FIRS	TENERGY CORP.				Date <u>5-2-07</u>		
	,		Road, Perry Ohio	44081			Sheet 1 of	2	
2. P	2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1								
•	_	10 Center I	Road, Perry, Ohio	44081			200168097 (Repair Org. P.O. I	Vo. etc.)	
3. W	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR								
ŀ		10.C	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No		
							Expiration Date	9-28-08	
4. ld	entificatio	n of System: 1E1	2 RESIDUAL HEA	T REMOV	'AL	~~~~		·	
5. (a) Applicat	ole Construction C	ode: ASME Section				,19 <u>74</u> Edit	on	
	Mintori	1975 Addenda	NAME/SECT			N-272 N	275, N-282, N-413	N 242	
(b			or repairs, modifica					N/A	
,,,	, 00,,0,,,	.0	o	2	0,000		ition Addenda	Code Case(s)	
(с) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989 Ed	N/A Addenda	N/A 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) Design	Responsibilities <u>F</u>		e Case(s)	,				
6. lde	entification	of Components F	Repaired, Modified,	or Repla	cement Cor	mponents			
	lame of mponent	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
	PING	PULLMAN	E12	83	1E12	1985	REPLACEMENT	YES	
SY	STEM	POWER			F063B				
	 								
-					<u> </u>				
-									
-						 	·		
L	<u> </u>								
7. De	scription	of Work: Replace	check valve SN SN	1 2-51906	-A with 2-52	2969- B			
_									
	st Conduc	•						er- 🗌	
Pre	essure <u>15</u>	50 psi Te	st Temperature No	OT (degrees F	Code	Case(s) <u>N/A</u>		

	R'S REPORT FOR R	EPAIRS OR REPLACEI	
PNPP No. 9308 Rev. 9/11/00			NQI-174
9. Remarks: <u>NONE</u>			
		INTERFACE CONTROLS OF RENCE HAVING BEEN RECEIV	
T LCT AND SOMEDICTION	L AUTHORITI CONCORT	CENCE HAVING BEEN RECEN	CD.
report is included on eac the front of this form.	h sheet, and (3) each sheel	t is numbered and the number o	of sheets is recorded
	CERTIFICATE OF	COMPLIANCE	
I, Russ Matthys , cert correct and the repair, modificat Code and to the National Board	ify that to the best of my know ion or replacement of the item	rledge and belief the statements many described above conforms to Se	ade in this report are ction XI of the ASME
National Board Certificate of Au	thorization No. 33	to use the "NR stamp expires 2	28 SEPT , 2008
Date <u>5-2-2007</u> Signed	FENOC-PNPP (name of repair organization)	(authorized representative)	OC Supervisor (tille)
	- Y., Y.	·	
CE	RTIFICATE OF INSPECTION	I/INSERVICE INSPECTION	
I, <u>Thomas G. Laps</u>	, holding a valid	commission issued by The Nation	al Board of Boiler and
Pressure Vessel Inspectors and	certificate of competency issu	ued by the jurisdiction of	OHIO
and employed by HARTFORD S	TEAM BOILER CT.	of <u>HARTFORD</u> , CT	have
inspected the repair, modificatio	n or replacement described in	this report on MAY 2, 20 07	and state that to
the best of my knowledge and b	elief, this repair, modification o	r replacement has been complete	d in accordance with
Section XI of the ASME Code ar	nd the National Board Inspecti	on Code "NR" rules.	
By signing this certificate, neither	r the undersigned nor my emp	oloyer makes any warranty, expres	sed or implied,
concerning the work described in	n this report. Furthermore, nei	ther the undersigned nor my emplo	yer shall be liable in
any manner for any personal inju	iry, property damage or loss o	of any kind arising from or connecte	ed with this inspection.
Date <u>5</u> 2 , 20 <u>07</u> Signe	d Thomas Adapa (inspector)	•	Ohio Comm (include endorsements), diction, and no.)

•

1E12-300 Pg2 of 2

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>

1. Manufactured and certific	ed by: <u>Weir Valve</u>	es and Controls USA Inc., 285 (name and address of N	5 Canal St., Salem, MA I Certificale Holder)	01970
2. Manufactured for <u>First I</u>	Energy Corporation, 10 Ce	nter Rd., P.O. Box 97, North	Perry OH 44081	**
		(name and address	of Purchaser)	
3. Location of installation_F	Perry Nuclear Power Plant	. 10 Center Road, Dock No. (name and ad		31
4. Model No., Series No., or	Type Dual Plate Check	Valve Drawing	50079-A	Rev. <u>06</u> CRN <u>N/A</u>
5. ASME Code, Section III, I	Division 1: 1974 (edition)	Winter 1975 (addenda date)		N/A (Code Case no)
6. Pump or Valve <u>Valve</u>	Nominal inlet size	8 Outlet size (in.)	8	
7. Material: Body <u>SA216</u> -	-WCB Bonnet	N/A Disk	SA487-CA6NM	Bolting <u>N/A</u>
(a) Cert. Holder's Serial No.	(b) Nat'i Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
2-52969-B	N/A	HT. #:87633 RT#: 75248	N/A	HT. #: 87506 RT#: 75239 &
		·		75241

^{*} 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 <u>2</u>)

Certificate Holder's Serial No. 2-52969-B

8. Design conditions 740 psi 100 °F or valve pressure class 300 (1) (pressure) (temperature)
9. Cold working pressure 740 psi at 100°F
10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi
11. Remarks: Pin Retainers SA 479-410 HT# : 504420 TR# 1510
CERTIFICATION OF DESIGN
Design specification certified by <u>Hiram R. Reppert</u> P.E. State <u>PA</u> Reg. no. <u>24928-E</u> (when applicable)
Design report certified by N/A P.E. State N/A Reg. no. N/A (when applicable)
CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.
N Certificate of Authorization No. N-2606 Expires 6-13-07
Date 1/29/06 Name WEIR VALVES & CONTROLS USA INC Signed
(N Certificate Holder) (Futhorized representative)
CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 9/29/06 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.
By signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or lass of any kind arising from or connected with this inspection.
Date 9/29/06 Signed Commission MA/657 A, B, N, T (Authorized Inspector) (Natt. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

NIS-2		ER'S REPOR equired by the Prov				REPLACEM on XI	ENTS
PNPP No. 9308 I	Rev. 9/11/00	<u> </u>				···	NQI-1741
. Owner: _	FIRS	TENERGY CORP.				Date <u>5-5-07</u>	
	10 Center	Road, Perry, Ohio	44081			Sheet 1 of	2
Dist	D N		anda)		-	Llada a	
. Plant: _		lear Power Plant (I Road, Perry, Ohio				Unit <u>1</u> 200157306	·
	10 Center i	toad, Ferry, Ond	44001			(Repair Org. P.O. I	lo., etc.)
Work Perfo	ormed By: FIRSTE	NERGY Nuclear On	erating Cor	mpany PNPF	Tvne (Code Symbol Stam	ın NR
	,	enter Road, Perry,			/ [Authorization No	, <u> </u>
						Expiration Date	9-28-08
. Identificatio	n of System: 1E1	2 RESIDUAL HEA	T REMOV	'AL		<u>.</u>	
(a) Annlical	ole Construction Co	nde: ASME Sectio	n III -Class	s 1 NB		,19 <u>74</u> Editi	on
		NAME/SECT	TON/DIVISIO	ON/CLASS			
	1975 Addenda					275, N-282, N-413	
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	epiacemen		tion W/75 Addenda	N/A Code Case(s
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	<u>1989</u>	N/A tion Addenda	N/A Code Case(s
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, M	odification,		, , , , , , , , , , , , , , , , , , , ,	0000 0000(3
19 89	N/A 19 N/A	Addenda N/A	\				
(e) Design	Responsibilities <u>F</u>		e Case(s)				
Identificatio	n of Components F	Repaired, Modified	, or Replac	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	PULLMAN	E12	83	1E12	1985	REPLACEMENT	YES
SYSTEM	POWER			F041A			-25
,			 		2		
			ļ				
					-		
				ļ			
•				<u> </u>			
Description	of Work: Reworke	d valve and replac	e disk - S	N 87709-3			

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPL PNPP No. 9308 Rev. 9/11/00	ACEMENTS (Back)
9. Remarks: NONE	·
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTRO EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN F	
Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets suc drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information report is included on each sheet, and (3) each sheet is numbered and the number front of this form.	in items 1 through 6 of this
CERTIFICATE OF COMPLIANCE	
I, Russ Matthys , certify that to the best of my knowledge and belief the statem correct and the repair, modification or replacement of the items described above conform Code and to the National Board Inspection Code "NR" rules.	nents made in this report are ns to Section XI of the ASME
National Board Certificate of Authorization No. 33 to use the "NR stamp e	expires 28 SEPT 2008
Date 5-5-2007 Signed FENOC-PNPP Ruo Mours (name of repair organization) (authorized represent	OC Supervisor (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	N
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 <u>HARTFORD STEAM BOILER CT.</u> of <u>HARTFORD, CT</u>	<u> </u>
inspected the repair, modification or replacement described in this report on MAY 14, 2	i i
the best of my knowledge and belief, this repair, modification or replacement has been or	ompleted 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 m	• •
any manner for any personal injury, property damage or loss of any kind arising from or o	connected with this inspection.
	4330 N I A (0 Mula Board (include endorsements), and jurisdiction, and no.)

Pg. 1 of 2



1 E12-301 Pg 2 of 2

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

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

1. Manufactured and certified by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603

•		Dame and add	ericigii, IVC Z	7003	
2. Manufactured for First Energy Co	rporation, P. O.	Box 6100, Johnstown, p	A 15007		
3. Location of installation First Energy	Corp., Perry Nu	iclear Plant 10 Center P	i D		
		(name and address)	d., Perry, OH	44081	
4. Type D82-24401-18, R/J (drawing no.)	SA105	N/A	, , , , , , , , , , , , , , , , , , ,	_	
		(tonsile strength)	N/A	2	2006
5. ASME Code, Section III, Division 1:	1974	Winter 1975	(CRN)	_	(year built)
3. Admit 6006, occion in, prosion in	(edition)	(addenda date)	1		N/A
6. Fabricated in accordance with Const. Spe	Div 2 only		(czets)		Code Case no.)
		(no.)	N/A	Date	N/A
7. Remarks: <u>Disk for 12" 4094(WC</u>	C)JNQTY Valve	:			
7. Hemarks.					
			,		
8. Nom. thickness (in.) N/A Min. de 9. When applicable, Certificate Holders' Data	sign thickness (in)	Per #4	S.	O. 37287	
9. When applicable, Certificate Holders' Data	Reports are attaches	Dia, ID (ft & in.)	N/A Len	gth overall (ft &	in.) N/A
S. Wilei applicable, activities are seen a see	reports are attached	for each item of this report:		3	
	National				· · · · · · · · · · · · · · · · · · ·
Part or Appurtenance Serial Number	Board No. in Numerical Order	Part or Appur	Tenance	Natio Board	
	0.00	Serial Nur	nber	in Numeri	
(1) 87709-1	N/A				
(2) 87709-2	N/A	(26)			
(3) 87709-3	N/A	[27]			
(4) 87709-4	N/A	(28)			
(5) 87709-5	N/A	(29)			
(6)		(30)	1		
(7)		[[31]	Į.		
(8)		(32)	ì		
(9)		(33)	l l		
1 ' '		(134)			
(11)		135/			····
(12)		(36)		V	
1		(37)			
(14)		(38)			
(15)		(39)			
(16)		(40)			
(17)	;	(41)	<u>-</u>	· · · · · · · · · · · · · · · · · · ·	
(18)		(42)			
(19)		(43)			
(20)			- 1		
(21)		(45)			
(22)		(46)			
(23)		(47)			
(24)		(48)			
(25)		(49)			
		(50)		<u> </u>	
1421		72			
). Design pressurep	si. Temp5	°F. Hydro te	St precure	N/A	at tome °E
		73 °F. Hydro. te	st pressure	N/A (when applicable)	at temp. °F
D. Design pressure			st pressure	N/A [when applicable]	at temp. °F

This form (E00040) may be obtained from the Order Door

FORM N-2 (Back - Pg 2 of $\underline{2}$)

Certificate Holder's Se	rial Nos. 87	7709-1 through 87709-5
CERTIFICATION OF DESIGN	4	
Design specifications certified by	_ P.E. State	Reg. no
Design report* certified by	_ P.E. State	Reg. no
(when applicable)		
CERTIFICATE OF COMPLIANO	CE	
We carlify that the statements made in this report are correct and should be seen	· Part	t(s)
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. N-1563	Expires	November 26, 2006
Flowers Commenter	Signed	2) A Real lauthorized representativel
CERTIFICATE OF INSPECTIO	N	
I, the undersigned, holding a valid commission issued by the National Board of Boiler of NC and employed by HSB CT		
of Hartford, CT have inspected these items described in this Data F	Report on 2	
best of my knowledge and belief, the Certificate Holder has fabricated these parts or ap		n accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown abo		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
By signing this certificate, neither the inspector nor his employer makes any warranty, exin this Data Report. Furthermore, neither the inspector nor his employer shall be liable in		
or loss of any kind arising from or connected with this inspection.	тапу таппы	tor any personal injury or property demage
Date 2/28/06 Signed Alm, July Com	imissions <u>A</u>	C [±] 142 att, Bd. (incl. endorsements) and state or prov. and no.)

1E12-302

	NIS-	2/NR-1 OWNE						ENTS
PI	NPP No. 9308		equired by the Prov	isions of tr	ne ASME Co	ode Secti	on XI	NQI-1741
1	Owner:	FIRS	TENERGY CORP.				Date 5-1	0-07
	OWITCH:		Road, Perry, Ohio	44081			Sheet 1 of	
	-							
2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1								
	-	10 Center I	Road, Perry, Ohio	44081			200153520	
							(Repair Org. P.O. N	ю., етс.)
3.	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR							
		10 C	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	33
							Expiration Date 9	9-28-08
4.	Identificati	on of System: <u>1E1</u>	2 RESIDUAL HEA	T REMOV	AL			
5.	(a) Applica	able Construction C	ode: ASME Sectio	n III -Class	s 2 NC		,1974 Editi	on
	. ,		NAME/SECT	10N/DIVISIC	ON/CLASS			
	Winte						N-275, N-282, N-4	
	(b) Const	ruction Code used f	or repairs, modifica	ations, or r	epiacement		W/75 Addenda	N/A Code Case(s)
	(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989 Ed	N/A Addenda	N/A Code Case(s)
	(d) Applic	able Edition of Sect	ion XI Utilized for F	Repairs, Mo	odification, o	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>						
6.	Identificati	on of Components F	Repaired, Modified	, or Replac	cement 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
	PIPING SYSTEM	PULLMAN POWER	E12	83	1E12F00 18B	1985	REPLACEMENT	YES
r								
t								
+		-						
L			L	<u> </u>				
7.	•	of Work: Replace	pipe and tee as a r	esult of flo	w accelerat	ted corro	sion (new pipe HT	S20419
0	New tee H		:- Pneumat	ia 🗇 N	Jaminal Os	oratina D	ressure- 🛛 Othe	er- 🗍
		ucted: Hydrostatic	st Temperature <u>79</u>	 -	vominai Opi legrees F	_	ressure- 🔼 — Othe Case(s) <u>N416-2</u>	≈ı- ∐
	riessule <u>s</u>	<u>115</u> psi Te	or reinherature <u>13</u>	<u> </u>	regrees F	Code	Oase(s) 144 10-2	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-17
Remarks: NONE

O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FRECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
TECT AND SOMEDICTIONAL ACTIONITY CONCORNENCE HAVING BEEN NECEIVED.
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 the front of this form.
CERTIFICATE OF COMPLIANCE
I, <u>Russ Matthys</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 , 2008
Date 5-10-2007 Signed FENOC-PNPP Russ Many OC Supervisor
(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 ofOHIO
and employed by HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on MAY 14, 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 arising from or connected with this inspection.
Date 5/14, 20 07 Signed home 4 Jan Commissions NB 9330 "N'A"A" Ohio Comm
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

							1E12-3	03
01			IER'S REPO quired by the Prov					
PI	NPP No. 930	8 Rev 9/11/00					· · · · · · · · · · · · · · · · · · ·	NQI-1741
1.	Owner:	FIRS	TENERGY CORP.				Date <u>05-31-07</u>	
		10 Center	Road, Perry Ohio	44081			Sheet 10F 2	
2.	Plant:	Perry Nuc	lear Power Plant (F	PNPP)			Unit ONE	
		10 Center I	Road, Perry, Ohio	44081			ORDER 200174 (Repair Org. P.O. I	
3.	3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NF							bol Stamp <u>NR</u>
		10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No Expiration Date	
4.	Identifica	tion of System: 1E1	2 Residual Heat R	emoval				
5.	(a) Applic	able Construction Co	ode: <u>ASME SECTI</u> NAME/SECT				1974 Ec	fition
	WIN	TER 19 75	Addenda Code	Case(s) 1	<u>644-5, 172</u>	8, N-224,	N-242, N-272, N-2	75, N-282,
	Frem 5	9-1, N-413 <i>Taile</i> 7 truction Code used f	or repairs, modifica	ations, or r	eplacemen	ts: <u>1974</u>	WINTER 75	see above
		E Code Section XI ap				1989 Edi	tion Addenda	Code Case(s) n/a Code Case(s)
	19 89			ddenda e Case(s)	<u>n/a</u>	_		
6.		in Responsibilities Fi ion of Components F	IRSTENERGY NU	CLEAR O			NY PNPP	
	Name of Componer	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	1985	replacement	yes
-								
L	~ 							
f		-						
7.	Descriptio	n of Work: Replaced	4X6 FLANGED F	RELIEF VA	LVE S/N-4	WITH NE	W RELIEF VALVE	E S/N-5 .
	@ 1E12-F	0055B.USING NEW HEAT # F5512, AND	2" DIA PIPE HEA					
		fucted Hydrostatic		ic D	Jominal On	erating P	ressure- 🕅 Oth	er- 🗍 ∽
		•		_		0	Case(s) - N/A - N	, —
								166 6 11 07

9	. Remarks: NONE
_	
_	
Й	O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
Đ	EINIC IN EFFECT AND HIDIODICTIONAL ALITHODITY CONCURDENCE HAVING BEEN DECENTED
믜	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 20
	Date 5-3/, 20 07 Signed FENOC-PNPP Mullism QE (name of repair organization) (authorized representative) (title)
	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
Í	1. THOMAS G LAPS
	Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction ofOHIO
	and employed by HARTFORD STEAM BOILER CT of HARTFORD CT have
Ì	inspected the repair, modification or replacement described in this report on June 1, 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 onloss of any kind arising from or connected with this inspection.
	Date 61, 20 67 Signed Thomas Commissions NB9330"N" "I" "A" OHIO COMM. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E12-303 pg 20F2

FORM NV-1 CERTIFICATE HOLDERS' DATA REPORT FOR PRESSURE OR VACUUM RELIEF VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of __2__

1.	Manufactured and c		ock; 1966E Broadhollow		gdale, NY 11735
2	Manufactured for		ame and address of NV Ce n; 10 Center Rd.; Perry,		
		(name and addres	s of Purchaser)		
3.	Location of installat	ion Perry Nuclear Po	ower Plant; 10 Center Roname and address)	d.; Perry, OH	
4.	Valve 76H-013	Orifice size 2.9	94 Nom. Inlet size	4 Outle	t size6
	(Model no., series no.	.)	(in.)	(in.)	(in.)
5.	ASME Code, Sectio	n III, DIVISION 1: <u>197</u> (edi	Summer 197 (addenda date)	(class) (None Code Case no.)
6.	Type Spring	485	N/A 450°F) (blowdown, psi) (rated ter	1100	at Ambient °F
	(spring, pilot or power op-	erated)(set pressure, psig)) (blowdown, psi) (rated ter	np) (hydro,test,pi	g,inlet)
7.	Identification5	N/A	76H-013 Rev. D	N/A	2007
8	Cert. Holde) Control ring settings	Not Applicable	(drawing no.)	(Nati i. Bd. no.)	(year built)
Ο.	Cormor range commige				
9.	Pressure retaining it	ems: Serial No. Or	Mat'l. Spec.		Tensile
		Identification	Including Type or	Grade	Strength
	Body	S/N 1	SA105		70 ksi
	Bonnet or Yoke				
	Support Rods		0.170.0.01		
	Nozzle Seat	S/N 7	SA479 316L		70 ksi
	Disk	S/N 11	SA564 630	H1100	140 KSI
	Spring Washers				
	Adjusting Screws				
	Spindle Spring				
	Bolting	Heat # 7244720	SA193 B7		125 ksi
	Other Items	170011111111111111111111111111111111111			
10		3,442gpm@10%_ove	rpressure as certified	by the Nation	nal Board <u>N/A</u>
					(date)
11			SA105	70 k	si
	<u>Cap</u>	S/N 2	SA216 WCB	<u>70 -</u>	<u>95 ksi</u>
Γ_		CERTIFICA	TION OF DESIGN		
D	esign Specification certi		on P.E. State	PA Reg.	No. <u>027024 E</u>
1					
D	esign Report certified by	y Not applical	ble P.E. State	Reg.	No
-					
1			OF COMPLIANCE		
			t are correct and that this	s pump or valve	conforms to
		of the ASME Code, Sec tion No. N-19		Evniron 40	//12/2007
1	Certificate of Authoriza			_ Expires12	/12/2007
D	ate 1/28/2007	Name <u>Targe</u> (NV Certific	et Rock Sig	gned _/w	· g
		(NV Certific	cate Holder) F	R. E. Glazier, QA	
L				(authorized rep	oresentative)

^{*} Supplemental information in 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.

^(12/88) This form (E(00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRINT 6/93

FORM NV-1 (BACK - Pg. 2 of 2)

Certificate Holder's Serial No. ____5

CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New York and employed by OneBeacon America Insurance Company of Boston, MA have inspected the pump, or valve, described in this Data Report on Syston, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date 2/28/0 Signed (Authorized Inspector) Commissions NV 2669 (Nat'l. Bd.(incl. endorsements) and state or prov. and no.)

1E21-039

SHRIST 1 OFL

	NIS-2	• • • • • • • • • • • • • • • • • • • •					REPLACEM	ENTS
Р	NPP No. 9308 F		equired by the Prov				OII XI	NQI-1741
1	. Owner: _	FIRS	TENERGY CORP.				Date <u>11/2/06</u>	
	_	10 Center	Road, Perry, Ohio	44081			Sheet 1 of	2
2.	. Plant:	Perry Nuc					Unit <u>1</u>	
	_	10 Center i	Road, Perry, Ohio	44081	•		200192905 (Repair Org. P.O. N	Vo., etc.)
3.	. Work Perfo	rmed By: <u>FIRSTE</u> 10 C	NERGY Nuclear Op enter Road, Perry				Type Code Syml Authorization No Expiration Date	. 33
4.	Identificatio	n of System: <u>Low</u>	Pressure Core Sp	ray 1E21				·
5.		ole Construction C	NAME/SECT	TION/DIVISIO	N/CLASS		19 <u>74</u> Editi	
	(c) ASME (d) Application (d) Application (e) 89,	oction Code used for the Code Section XI applies Edition of Section 19 N/A Responsibilities F	oplicable for Inservion XI Utilized for F Addenda N/A	ice Inspec Repairs, Mo	tion:	Edi 1989 Edi	tion Addenda N/A Addenda	N/A Code Case(s) N/A Code Case(s)
6.		n of Components F		, 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
	Pump	Bingham Willamette	1A017	797	N/A	1980	Replacement	Yes
-								
						of a w		
L				-Caper	ल (प्राप्त		94 J	111
7.	Description	of Work: Removed	d rotating element	S/N 1A02	2 and instal	lled rotatir	ng element S/N 1A	017
		mp casing was not						
8.		cted: Hydrostatio	- Pneumat st Temperature 77	_	Nominal Op legrees F	Ū	ressure- 🛛 Othe Case(s) <u>N/A</u>	er- [_]

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: TTEM 15 1E2/C0002 m/7 7/9/07 TEL 7/9/07
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 2 Nov. , 20 06 Signed FENOC-PNPP 3/Lot QC Tech. (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, <u>Thornas 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 Nov. 3, 20 06 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 11 3 . 20 06 Signed Thomas Light Commissions NB 9330 "N" "I" "A" Ohio Comm. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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1E21-039 SHABT 2012

FORM NEVET NUFACTURERS DATA REPORT FOR NL EAR PUMPS OR VALVES* (As Required by the Provisions of the ASME Code, Section III, Div. 1)

Ain.	onant-wittemerre to 2	OUU. 1986 ET.UIII. MYE FIZI'E	
Manufactured by Other	(Name and Address of Manufacturer)	800 NW Front Ave., Port eland Electric Illumina	A 3
Manufectured for Gil	dert-commonweatth/Glev	elande Electric Illumina	ring
Location of Installation	Penny Nuclear Power	Plant Units 1 & 2	
	(Namzsad Address)		Juster Cira 2
Pump or Volva	Pulno: Non	ninas: Inlet: Size (inch)	Jutlet Size (inch)
tal Mocel No.	(b) Menufacturers (c) Canad	dian	
Series No.	Serial - Registrat		(f) Nat'l, (g) Year
or Type	No. No.	No. (e) Class	8d. No. Built
CAP	taota NA	FD 1A015/22 II	. Nú 707 1980
		FU TAULS/ 22. TT	, NB-797 1980
2)			
3}			····
4)			
5)			
6)			·····
7)			
s)			
(6)			
10,			
Water-E	ed Pump		
and the second second second	150: pai 140 Ringsyrs): (Temper	for which equipment well designed) *For Valve Pressure Clastions*	3 IF (I)
old Working Pressure	150 put (Tempera 150 put 170 p	F or Volve Pressure Clas	3 IF (1)
old Working Pressure ressure Retaining Pieco Mark No.	150 put (Tempera 150 put 170 p	F or Volve Pressure Clas	3 II (1)
iciti Working Pressure Pressure Retaining Prec Mark No.	(Brief description of service) 150 put 140 (Blegurs) (Tempore 150 put at 100°F.	F or Valve Pressure Clas	(1)
citt Working Pressure: Teasure Retaining Prec Mark No. of Castings	(Brief description of service) 150 put 140 (Blegurs) (Tempore 150 put at 100°F.	F on Volve Pressure Clas	Remarks
Old Working Pressure: Teasure Retaining Piece Mark No.: 2) Castings: 1129-77-3 1129-77-3	150: pui 140: Riversitis (Tempera 150) psi at 100°F. Material Spec: No:	F or Valve Pressure Clas	
Citt Working Pressure: (casure Retaining Precs Mark No. 2) Castings 1129-77-3	Brief description of services 150: pai 140	F cr. Volve Pressure Clas Manufacturar Qual 1:-Cas t	Remarks Gase
old Working Pressure: //essure Retaining Precs // Mark No.: 1/29-77-3 1/29-77-3	Brief description of services 140 150 140 15	F cr. Volve Pressure Clas Manufacturer Qual 1:-Cas t Quali-Cas.t	Remarks Gase Stuffling Box
old Working Pressure: //essure Retaining Precs // Mark No.: 1/29-77-3 1/29-77-3	Brief description of services 140 150 140 15	F cr. Volve Pressure Clas Manufacturer Qual 1:-Cas t Quali-Cas.t	Remarks Gase: Stuffling: Box
old Working Pressure: Teasure Retaining Precs Mark No.: 1129-77-3 1129-77-3	Brist description of services 150	Manufacturar Qual 1 - Cas t Qual 1	Remarks Gase Stuffling Box
Old Working Pressure: Teasure Retaining Piece Mark No.: 2) Castings: 1129-77-3 1129-77-3	Brist description of services 150	Manufacturar Quali-Cast Quali-Cast	Remarks Case Stuffing Box Seal Gland
Old Working Pressure: Teasure Retaining Piece Mark No.: 2) Castings: 1129-77-3 1129-77-3	Brist description of services 150	Manufacturar Qual 1 - Cas t Qual 1	Remarks Case Stuffing Box Seaf Gland
Old Working Pressure: Teasure Retaining Piece Mark No.: 2) Castings: 1129-77-3 1129-77-3	Brist description of services 150	Manufacturar Quali-Cast Quali-Cast	Remarks Case Stuffing Box Seal Gland
Old Working Pressure: Teasure Retaining Piece Mark No.: 2) Castings: 1129-77-3 1129-77-3	Brist description of services 150	Manufacturar Quali-Cast Quali-Cast	Remarks Case Stuffing Box Seaf Gland
Cold Working Pressure: Vesture Retaining Piece Mark No.: a) Castings 1129-77-3 1147-77-8	Brist description of services 150	Manufacturer Quali-Cast Quali-Cast	Remarks Case Stuffing Box Seaf Gland
Cold Working Pressure: Pressure Retaining Piece Mark No.: a) Castings 1129-77-3 1147-77-8	Brist description of services 150	Manufacturer Quali-Cast Quali-Cast	Remarks Gase Stuffing Box Seal Gland
Cottle Working Prossure: Pressure: Retaining: Piece Mark No.: [a) Castings [1/29-77-3 [1/47-77-8]	Brist description of services 150	Manufacturer Quali-Cast Quali-Cast	Remarks Case Stuffing Box Seal Gland
Cottle Working Pressure: Vicesure Retaining Pressure: Mark No. 2) Castings: 1129-77-3 1129-77-3 1147-77-8	Brist description of services 150	Manufacturer Quali-Cast Quali-Cast	Remarks Case Stuffing Box Seal Gland
Celt Working Pressure: Teasure Retaining Precsure: Mark No. Discussions: 1129-77-3 1129-77-3 1147-77-8	Brist description of services 150	Manufacturer Quali-Cast Quali-Cast	Remarks Gase Stuffing Box Seal Gland

⁽¹⁾ For manually operated valves only.

Supplemental sheets in form of lists, shetches or drawings may be used provided (1) size is 8-1/2" x 11", [2] information 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.

^(3/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E, 47 Sc., New York (1907)

	~ . 		
. Mark No.	Material Spec. No.	Man turer	Remarks
Bolting			
8784	SA-193 87	Metria	Stud, Case
8785 0124	SA-194 2H	Metrix	Nut. Case
GF24	SA-193 BEM	Metrix	Stud, Gland
8787	SA-194 BSM	Metrix	Nut, Gland
A	SA-449 CT 2	Metrix	Capscrew Bracket, M
À	SA-325 Tp T	Metrix	Bolt, Pump
0610	SA-193 B7	Metrix	Taper Pin
P.O. 1-45565	SA-192 304	Familian	Plug, Orain
(d) Other Parts (Sea	Circulation Piping)		
TH4051	L5A-312 304	Tube Sales	Pipe
V10	SA-182 304	Familian :	Tee
V10	SA-182 304	Familian	Elbow
ABA	SA-182 304	Familian	Plug
0637	SA-182 304	Metrix	Orifice
VDO, VFA, VKO	SA-182 304	Familian	Union
			
225.10			

9. Hydrostatic test 225/900 psi.

34

CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this pump, or valve; conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1, Estion 1974 Addends W175 Code Case No. NA. Date Company Signod Bingtram-Willamette Company
Our ASME Certificate of Authorization No. N=1654 to use the N. symbol expires 2/28/83. (N) (NFV) (Date)

	CERTIFICATION OF DESIGN
Design Information on file:at	Singham-Willamette Company
Stress;analysis report (Class 1 only) on file at	
Design specifications certified by (1) PE State Penn Reg. No.	Hiram R. Reppert
Stress enalysis certified by (1)	Paul Oliver - Van Gulik Assoc
FE State Oregon Reg. No.	626.1
(1) Signature not required. List name only.	

CERTIFICATE OF SHOP INSPECTION
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Oregon and employed by Department
of Contierce have inspected the pump, or valve, described in this Data Report on: 4.23 19 80 and state that to the best of my knowledge and belief, the Manufactuser has con- structed this pump, or valve, in accordance with the ASME Code, Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning, the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dato 1:23 19 80 Life de la commissions VE 5037 Ove 556 [Nat1 2d. State Prov. and No.]

1E22-062

	NIS-2		R'S REPOR quired by the Prov				REPLACEMI	ENTS
19	IPP No. 9308 F							NQI-1741
1	Owner:	FIRS	TENERGY CORP.				Date 10/10/05	
	_	10 Center I	Road, Perry, Ohio	44081			Sheet 1 of	2
2.	Plant:		lear Power Plant (F					
	_	10 Center I	Road, Perry, Ohio	44081			200170404 (Repair Org. P.O. N	lo., etc.)
3	Work Perfo	rmed By: FIRSTE	NERGY Nuclear On	erating Cor	noany PNPF)	Type Code Symb	ool Stamo NR
			enter Road, Perry,	-		-	Authorization No	
							Expiration Date 9	
4.	Identificatio	n of System <u>1E2</u>	2 High Pressure C	Core Spray	,		17 1	,
5.	(a) Applicat	ole Construction C	ode: ASME Sectio	n III Class	2		,19 <u>74</u> Editi	on
			NAME/SECT	TON/DIVISIO	ON/CLASS			
	<u>vvinter</u>	19 <u>76</u>	Addenda Code	Case(s) ii	/a			
	(b) Constru	iction Code used f	or repairs, modifica	ations, or r	eplacemen		w 76	n/a
	(c) ASME (Code Section XI ap	onlicable for Inserv	ice Inspec	tion:	Edi 1989	ition Addenda none	Code Case(s) n/a
		·				Edi	tion Addenda	Code Case(s)
		ble Edition of Sect			odification,	or Replac	ements:	
		none 19 none	Cod	e Case(s)				
		Responsibilities <u>F</u> n of Components F			cement Cor	mponents		
Г	Name of	Name of	Manufacturer	Nat.	Other	Year	Repair,	ASME
L	Component	Manufacturer	Serial No.	Board No.	ID.	Built	Replacement, or Modification	Code Stamped
	PUMP	Bingham Willamette	1A018	798	1E22- C003	1980	Replacement	Yes
	<u>, </u>							
7.	Description :	of Work: Worked	he pump using rep	olacement	stuffing bo	x and sea	I gland fron pump s	s/n 1A017.
8.	Test Conduc	cted: Hydrostatio	- Pneumal	tic- 🗌 🛮 1	Nominal Op	erating Pi	ressure- 🛛 Othe	er- 🗌
	Pressure <u>51</u>	psi Te	st Temperature <u>1</u>	10 0	degrees F	Code	Case(s) <u>n/a</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00
9. Remarks:
NO NAMEDI ATE/STAMBINO DEDEODMED DUE TO THE INTERFACE CONTROL S OF DA 2270
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 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 10 Oct. 20 05 Signed FENOC-PNPP Mind Jan 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 $\alpha = 0.5$ and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 10 to . 20 05 Signed 10 (no Comm. (inspector) Commissions NB 9330 "N" "1" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

POD -3 1E22-062 PAGE 2 0 = 2 FORM (194-1 - NUFACTURERS' DATA REPORT FOR NU . EAR PUMPS OR VALVES! (As Required by the Provisions of the ASME Code, Section III, Div. 1) 1. Manufactured by Bingham-Hillamette Co., 2800 MM Front Ave., Portland, Oregon 97210 Name and Address)

Name and Address)

Pump (Address)

Pump (Address)

Pump (Address) 2. Manufactured for Gilbert-Commonwealth/Cleveland Electric Illuminating Location of Installation _ 4. Pump or Valva ... (a) Model No.: (b) Manufacturers' (c) Canadian Sedes No.² Sansi -Registration (d) Drawing (f) Natil. (g) Year Nο. Nο. (e) Class Bd. No. or Type Built FD 1A015/22 II..., CAP 1A017 T980 [1] (2) 13) (4) (5) (6) (2)(8) (3) (101 Mater Leg Pump 6. Dazign Conditions 7. Cold Working Pressure a: 100°F. 3. Prossure Retaining Pieces Mark No Material Spic, No. Manufacturer Remarks tor Camings 1129-77-3 1129-77-3 SA-351 CF8 Quali-Cast Case Stuffing Box SA-351 CFS Quali-Cast Seal Gland (b) Forgings 3065 HEM! CO PAGE (1) For manually operated valves only.

^{*} Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 6-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each abest, and (3) each abest is numbered and number of sheets is recorded at top of this form.

^(3/77) This form (E00037) may be obtained from the Order Cept., ASME, 345 E, 47 St., New York, N.Y. 10017

Botting	
SA-194 2H Metrix Nut. Case	
O124	
SA-194 BEM Metrix Nut, Gland	
A SA-449 C1 2 Metrix Capscrew Brack A SA-325 Tp 1 Metrix Bolt, Pump 0610 SA-193 B7 Metrix Taper Pin P.O. 1-45565 SA-192 304 Familian Plug, Orain (d) Other Parts (Seel Circulation Piping) TH4051 SA-312 304 Tube Sales Pipe V10 SA-182 304 Familian Elbow V10 SA-182 304 Familian Elbow V10 SA-182 304 Familian Plug V10 SA-182 304 Metrix Orifice	
A SA-325 Tp 1 Metrix Bolt, Pump 0610 SA-193 B7 Metrix Taper Pin P.O. 1-45565 SA-192 304 Familian Plug, Orain TH4051 SA-312 304 Familian: Tee V10 SA-182 304 Familian Elbow V10 SA-182 304 Familian Elbow V10 SA-182 304 Familian Plug 0637 SA-182 304 Metrix Orifice	
Obit	icket,
P.O. 1-45565 SA-192 304 Familian Plug Orain Other Parts (Seal Circulation Piping) TH4051 SA-312 304 Tube Sales Pipe	
Continue Parts (Seal Circulation Piping) TH405 SA-312 304 Tube Sales Pipe V10 SA-182 304 Familian Fee V10 SA-182 304 Familian Elbow VHV SA-182 304 Familian Plug O537 SA-182 304 Metrix Orifice	
TH405 SA-312 304 Tube Sales Pipe V10 SA-182 304 Familian Tee V10 SA-182 304 Familian Elbow V17 SA-182 304 Familian Plug O637 SA-182 304 Metrix Orifice V17 V17	
TH405 SA-312 304 Tube Sales Pipe	
TH405 SA-312 304 Tube Sales Pipe	
V10 SA-182 304 Familian Elbow VHY SA-182 304 Familian Plug 0537 SA-182 304 Metrix Orifice	
VHV SA-182 304 Familian Plug 0637 SA-182 304 Metrix Orifice	
0637 SA-182 304 Metrix Orifice	
VDO VFA VKO SA-182 304 Familian Union	

9. Hydrostatic test 225/900 psi.

CERTIFICATE OF COMPLIANCE
We cartify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III; Div. I., Sellton. 1974 Addanda W76 , Code Case No. NA Dete
Signed Bingham-Willamette Company by Signed Bingham-Willamette Company
Our ASME Conflicates of Authorization No. 18-1654 to use the N symbol expires 2/28/83 (IN) (NFV)

	CERTIFICATION OF DESIGN
Design information on file at	Bingham-Willamette Company
Stress analysis report (Class Tonly) on file at	NA
	Hiram R. Reppert
PE Stato Penn Reg. No Stroze analysis certified by (1)	Paul Oliver - Van Gulik Assoc.
PE State <u>Oregon</u> Reg. No	626.1
(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 <u>Oregon</u> and employed by <u>Department</u> of <u>Commerce</u> have inspected the pump, or valve, described in this Data Report on 19 #2 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III,
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be fisble in any manner for any personal injury or property demage or a loss of any kind arising from or connected with this inspection.
Data 19 90 Commissions 15 1037 Orc. 550 (Inspector) (Nert Bd., State, Prov. and No.)

1E22-063

	NIS-2						REPLACEM	ENTS	
PNPP N	lo. 9308 F	AS FE lev. 9/11/00	equired by the Prov					NQI-1741	
1 Ow	ner:	FIRS	TENERGY CORP.				Date 1-24-06		
, . O.			Road, Perry, Ohio	44081			Sheet 1 of	2	
2. Pla	nt:	Perry Nuc	lear Power Plant (I	PNPP)			Unit <u>one</u>		
	10 Center Road, Perry, Ohio 44081						order 200192276 R/0 (Repair Org. P.O. No., etc.)		
2 W-	-l. Da-fa	and Dur. CIDETE	NEDCY Nuclear Oc	arstina Can	annu DNOE	.	Tupo Codo Sumi	nal Chama N	ID
3. WO	гк Репо	-	NERGY Nuclear Op enter Road, Perry,			-	Type Code Symt Authorization No		<u>IK</u>
			enter itoau, r eny,	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>		Expiration Date (
<u> </u>				_			Expiration Date 5	33 20 2000	
4. Ider	ntificatio	n of System: <u>1E2</u>	2 High Pressure C	ore Spray					_
5. (a) i	Applicat	le Construction C	ode: <u>ASME SECT</u> NAME/SECT	ION III NC	N/CLASS		,19 <u>74</u> Editi	on	
	winter	19 75		Д	ddenda Co	ode Case_	1644-5, 1683-1, N	224-1, N24	0,
			1 12			1 4074	N242, N272, N		_
(b)	Constru	ction Code used t	or repairs, modifica	ations, or r	eplacemen		ition Addenda	see abov Code Case(_
(c)	ASME (Code Section XI ap	oplicable for Inserv	rice Inspec	tion:	1889 Edi	no Addenda	n/a Code Case(s	- s)
(d)	Applicat	ole Edition of Sect	ion 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)	Design	Responsibilities <u>F</u>	Cod irst Energy Nuclea	e Case(s) r Operatin	g Company	PNPP			
	1151 11		Daniel and 38 adition	an Dawlar					
F	 	·	Repaired, Modified	· · · · · · · · · · · · · · · · · · ·	T	'	Danei.	A CASE	1
	me of ponent	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
PIPI		PULLMAN	1E22	86	NA	1985	RPL	YES	
SYS	IEM	POWER							
					1				
									
-									
L					<u></u>				1
	•	of Work: Replaced	d horizontal waterle	eg pump S	/N 1A017 a	at 1E22-C	0003 with new water	erleg pump	
	1A018								
	Conduc	•			Nominal Op	_		er- 🗌	
Pres	sure <u>55</u>	psi Te	st Temperature 1	<u> 11 C</u>	legrees F	Code	Case(s) <u>NA</u>		

	NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back No. 9308 Rev 9/11/00 NQI-
9 Re	emarks: <u>NA</u>
<u>и Ои</u>	AMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEIN	G 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 thi report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorde the front of this form.
Co	tohn W. Messenger
Co Co Na	tohn W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are trect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. Itional Board Certificate of Authorization No33
Co Na	tohn W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are trect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. Itional Board Certificate of Authorization No33
Coi Co Na Da	techn W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are crect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. tional Board Certificate of Authorization No33
Cool Cool Na Da	certify that to the best of my knowledge and belief the statements made in this report are rect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. Items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. Items described above conforms to Section XI of the ASM de and to the National Board Inspection XI of the ASM de and to the National Board of the ASM described above conforms to Section XI of the ASM described above confo
Coi Co Na Da	certify that to the best of my knowledge and belief the statements made in this report are rect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. It ional Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-28 20 08 to 1/23 20 06 Signed FENOC-PNPP (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION Chomas Laps holding a valid commission issued by The National Board of Boiler as essure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO demployed by HSB CT. 6 Hartford Conn. hav
Coil Co Na Da I, I Pre and ins	certify that to the best of my knowledge and belief the statements made in this report are rect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. It ional Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-28 20 08 to 1/23 20 06 Signed FENOC-PNPP (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION Chomas Laps holding a valid commission issued by The National Board of Boiler are resource Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO demployed by HSB CT of Hartford , Conn. have prected the repair, modification or replacement described in this report on JAN-25 20 06 and state that to
I, I Pre and ins	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION CERTIFICATE OF Competency issued by the jurisdiction of Essure Vessel Inspectors and certificate of competency issued by the jurisdiction of Editor, modification or replacement described in this report are rect and the repair, modification or replacement of the items described above conforms to Section XI of the ASM de and to the National Board Inspection Code "NR" rules. 10 08 10 08 11 09 12
I, I Pre and ins	certify that to the best of my knowledge and belief the statements made in this report are rect and the repair, modification or replacement of the items described above conforms to Section XI of the ASMI de and to the National Board Inspection Code "NR" rules. It ional Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-28 20 08 to 1/23 20 06 Signed FENOC-PNPP (authorized representative) (title) CERTIFICATE OF INSPECTION/INSERVICE INSPECTION Chomas Laps
L. I.	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION CERTIFICATE OF Competency issued by the jurisdiction of CHIO Cemployed by HSB CT. The demployed by
I, I and ins the By cor	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION CERTIFICATE OF INSPECTION/INSERVICE INSPECTION Compass Laps Comp

1E22-063 Sheet 2 of 2

FORM NPV-1 . . .NUFACTURERS' DATA REPORT FOR NU LAR PUMPS OR VALVES* (As Required by the Provisions of the ASME Code, Section III, Div. 1)

· • · · · · · · · · · · · · · · · · · ·			
Manufactured by Bin	gham-Willamette Co., 28	300 NW Front Ave., Por	tland, Oregon 9721
	(Name and Address of Manufacturer) bert-Commonwealth/Cleve		
_	Name and Address of Purchaser or O	**************************************	
Location of Installation	(Name and Address)	Tane on es	
Pump or Valve	Pump Nom	inal Inlet Size2	Outlet Size
(a) Model No.,	(b) Manufacturers' (c) Canad		tinen)
- Series No.	Serial 11 1Registrati	on (d) Drawing	(f) Nat'l. (g) Yea
or Type	No. No.	No. (e) Class	s Bd. No. Built
1) CAP	1A018 NA	- FD 1A015/22 II	NB-798 1980
2)			
3)		<u> </u>	
4)			
5)			
6)			
8)			
9)			
10)		<u> </u>	
Water Le	ea Pumn .		
		or which equipment was designed)	
Pressure Retaining Piece	s 		· · ·
Mark No.	Material Spec. No.	Manufacturer	Remarks
a) Castings			
1147-77-4	SA-351 CF8	Quali-Cast	Case
1147-77-4 1147-77-2	SA-351 CF8 SA-351 CF8	Quali-Cast Quali-Cast	Stuffing Box Seal Gland
	311 337 013	quari ous c	364, 014.10
		: -	COMMON
			1 (3)
· · · · · · · · · · · · · · · · · · ·			3062 =
			300
b) Forgings	·		G/C . Q+
	<u> </u>		
· · · ·			<u> </u>
~		S.O	11119
			11110
		ITEM Cac	LE DATA POSTO
		PAGE	+ 3

⁽¹⁾ For manually operated valves only.

^{*} 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 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets

Mark No.	Material Spec. No	Manu, urer	Remarks
(c) Bolting			:
8784	SA-193 B7	Metrix	Stud, Case
87.85	- SA-194 2H	Metrix	Nut. Case
0124	SA-193 BEM	Metrix	Stud, Gland
8787	SA-194 B&M	Metrix	Nut, Gland
A	SA-449 C1 2	Metrix	Capscrew Bracke
A	I SA-325 Tp 1	Metrix	Bolt, Pump
0610	SA-193 B7	Metrix	· Taper Pin
P.O. 1-45565	SA-192 304	Familian	Plug, Drain
F.O. 1-45505	3A-192 304	Tallit t Tall	Triug, Diain
(d) Other Parts (S	eal Circulation Piping)		
TH4051	SA-312 304	Tube Sales	Pipe
· V10	SA-182 304	Familian :	Tee
V10	SA-182 304	Familian	Elbow
VHV	SA-182 304	Familian	Plug
0637	SA-182 304	Metrix	Orifice
VDO,VFA,VKO	SA-182 304	Familian	Union
VUU, VFA, VKU	2H-105 304	raili i i ati	<u> </u>
Hydrostatic test223;	7900 psi.	·	
	GERTISICATE OF		i
certify that the statem	ents made in this report are correc	COMPLIANCE t and that this pump, or valve	e, conforms to the rules of
nstruction of the ASME denda W'76 (Oate) gned Bingham-Wi	ents made in this report are correct Code for Nuclear Power Plant Cor 	t and that this pump, or valve nponents. Section III, Div. I., I	Edition 19/4 [
nstruction of the ASME denda W'76 (Oate) gned Bingham-Wi	ents made in this report are correct Code for Nuclear Power Plant Cor	t and that this pump, or valve nponents. Section III, Div. I., I by by by late N sym (N) (NFV)	Edition 1974
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nstruction of the ASME Idenda W'76 (Oate) gned Bingham-Wi (Manufactur ASME Certificate of Autoristic Asma Certificate of Autorists analysis report (Classess analysis report (Code for Nuclear Power Plant Cornect Code for Nuclear Power Plant Cornect Code Case No. NA Code Case No. NA Code Case No. NA CERTIFICATION (Code Case)	t and that this pump, or valve inponents. Section III, Div. I., I Date	Edition 1974
nstruction of the ASME Idenda W'76 (Date) Igned Bingham-Wi (Manufactur ASME Certificate of Autorities analysis report (Classess analysis report (Classess analysis certificate Penn ress analysis certified by tress analysis certified by tress analysis certified by tress analysis certified by the Identity of the Identit	Code for Nuclear Power Plant Cornect Code for Nuclear Power Plant Cornect Code Case No. NA Code Case No. NA Code Case No. NA CERTIFICATION (Code Case)	th and that this pump, or valve inponents. Section III, Div. I., I by Arrange III by Arrange III by III by III by III by III symmethe Name III symmethe Name III symmethe III	Edition 1974
nstruction of the ASME Idenda W'76 (Oate) Igned Bingham-Wi (Manufactor ASME Certificate of Autorities analysis report (Classess analysis report (Classess analysis certified by tress analysis certified by tress analysis certified by tress analysis certified by the Identity of the Ident	CERTIFICATION (Bingham-Wills 1 only) on file at Reg. No. 24928E Reg. No. 24928E	t and that this pump, or valve inponents. Section III, Div. I., I Date	Edition 1974
nstruction of the ASME Idenda W'76 (Oate) Igned Bingham-Wi (Manufactor ASME Certificate of Autorises analysis report (Classes analysis report (Classes analysis certified by Caste Oregon	Code for Nuclear Power Plant Cornect Code for Nuclear Power Plant Cornect NA Ilamette Company (Norization No. N-1654 to Bingham-Wills 1 only) on file at NA Hiram R. Reg. No. 24928E Paul Oliver Reg. No. 6261	t and that this pump, or valve inponents. Section III, Div. I., I Date	Edition 1974
nstruction of the ASME Idenda W'76 (Oate) Igned Bingham-Wi (Manufactor ASME Certificate of Autorities analysis report (Classess analysis report (Classess analysis certified by tress analysis certified by tress analysis certified by tress analysis certified by the Identity of the Ident	Code for Nuclear Power Plant Cornect Code for Nuclear Power Plant Cornect NA Ilamette Company (Norization No. N-1654 to Bingham-Wills 1 only) on file at NA Hiram R. Reg. No. 24928E Paul Oliver Reg. No. 6261	t and that this pump, or valve inponents. Section III, Div. I., I Date	Edition 1974
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nstruction of the ASME Idenda W'76 (Oate) Igned Bingham-Wi (Manufactor ASME Certificate of Autorian Sign information on file areas analysis report (Classessian specifications certificate Penn ress analysis certified by State Oregon Signature not required. I	CERTIFICATE OF SHO	th and that this pump, or valve inponents. Section III, Div. I., I Date	Edition 1974 - 1972 - 80 bol expires 2/28/83 (Date)
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nstruction of the ASME Idenda W'76 (Oate) Igned Bingham-Wi (Manufactor ASME Certificate of Autorian ASME Certificate of Autorian State Penn (Classess analysis report (Classess analysis certified by State Oregon Signature not required. If the undersigned, holding the State or Province of Commerce (Commerce Asserts)	CERTIFICATION (Bingham-Willston) Paul Oliver Reg. No. 24928E Reg. No. 24928E (1) Paul Oliver Reg. No. 6261 List name only. CERTIFICATE OF SHO a valid commission issued by the Oregon e have inspected the paul of the best of the correct of the best of the best of the best of the correct of the best of the correct of the best of the best of the best of the best of the correct of the correct of the best of the best of the best of the correct of the co	th and that this pump, or valve inponents. Section III, Div. I., I Date	Pressure Vessel Inspectors rtment
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Commissions AB 8077 Ore 554
[Narl Bd., State, Prov. and No.]

Date _

1EZZ-068

SHART 1 OF 2

	NIS-2	• • • • • • • • • • • • • • • • • • • •	R'S REPOR quired by the Prov				REPLACEM	ENTS
Pi	NPP No. 9308 F							NQI-1741
1.	Owner:	FIRS	TENERGY CORP.				Date <u>11/6/06</u>	···
		10 Center F		Sheet 1 of	2			
2.	2. Plant: Perry Nuclear Power Plant (PNPP) _ Unit _1							Jo., etc.)
3.	Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Con	npany PNPF	2	Type Code Syml	ool Stamp <u>NR</u>
		10 Ce	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No	33
							Expiration Date 5	9/28/08
4.	Identificatio	n of System: <u>HIG</u>	H PRESSURE CO	RE SPRA	Y 1E22			i
5.	(a) Applicat	ole Construction Co	ode: ASME Section	n III class ION/DIVISIO	2 DN/CLASS		,19 <u>74</u> Editi	on
	Winter	19 76						
					<u>-</u>	···		
	(b) Constru	iction Code used fo	or repairs, modifica	ations, or r	eplacemen		W76 Addenda	N/A Code Case(s)
	(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	1989	N/A Addenda	N/A Code Case(s)
		ble Edition of Secti			odification,	or Replac	ements:	. ,
		<u>N/A</u> 19 <u>N/A</u>	Code	e Case(s)				
_		Responsibilities <u>Fi</u>						
6. r	Identification	n of Components F	· · · · · · · · · · · · · · · · · · ·	·	ement Cor	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
	Pump	Bingham Willamette	1A019	799	N/A	1980	Replacement	Yes
					{			
t								
\dagger						 		
L	D/:	- 51M1 D	1 1 1	C/N 4353		D. 4 . 5 . 2	.)	
1.		of Work: <u>Removed</u> tuffing box and sea					ng element S/N 1A	022
8.	Test Conduc						ressure- 🛛 Othe	er- 🗌
_	Pressure <u>51</u>	psi Tes	st Temperature 1	12 <u> </u>	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: ITEM 15 1E22 C0003. 21777-9-07 TGL 7/9/07
-
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 6 Nov. , 20 06 Signed FENOC-PNPP Month of Tech (authorized representative) QC Tech (bittle)
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 Nov. 17 20 06 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection. Date 11 7, 20 06 Signed Thomas Commissions NB 9330 "N" "I" "A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

1 E22-068 SHIST 2 OF 2

FORM NPV-1 ANUFACTURERS' DATA REPORT FOR N ... EAR PUMPS OR VALVES" (As Required by the Provisions of the ASME Code, Section III, Div. 1)

Manufactured by 81	(Nams and Address of M.	anulacionerl'	nd File	ctric	111	umi na	fina	
	The street and additional to the street	orthoger on Design	HELDING	20116	2 2	WITH FIRE	CHIY	
ocation of installation								
Pump or Valva.	Pump	Nominali	inl e t⊵.Sī́a	o	2		Outlet Size .	2
(a) Model No.,	(b) Misnufacturara	(c) Canadian			incu)			(Inich)
Series No.	Serial	Registration	(d):(Drawing:	•		(f) Not	1. (g) Yea
or Type	No.	No.		No:	ł	e) Class	Bd: No	_
CAP-	1A022	NA .	. FD	1AC15/	122	П	NS-802	1980
1) GAP								
3):, -:								
4)								
SP								
3).			<u> </u>					
7)								
3):								
10)								
· Water I			arten e i					
		of service for wh	ii Çir. equipi	HOLL WAR	Jezigi	411		
Design Conditions: Cold Working Pressure	or the second of	140. (Temperanice): 1007F.	*F · o	ır Vəlva:	Press	ure: Clas	I I	[[
Jesign Conditions:	or the second of		*F.c				I.I	[]
Design: Conditions: Cold Worldng: Pressure	or the second of	1007F.	*F c	Manufa			T	[
Jesigni Conditions: old Working Pressure Pessure Retaining Pier Mark No.	Material S	1007F.		Manufa	eture		T	
Jesigni Conditions: Lold Working: Pressore Peasone Retaining Pier Mark No. 3) Caetings 11-72-77-7	Material S	100°F. 	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working: Pressure Pessure Retaining Plan Mark No. 3) Castings 1,172-77-7	Material S	100°F. 	Qua:1	Manufa	t		Re Case	
Design Conditions: Lold Working: Pressure Pressure Retaining Plan Mark No. 3) Castinga 1,1-72-77-7	Material S	100°F. 	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working Pressure Peasure Retaining Pier Mark No. 5) Castings 1,1-72-77-7	Material S	100°F. 	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working: Pressure Pressure Retaining Plan Mark No. 3) Castinga 1,1-72-77-7	Material S	100°F. 	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working: Pressure Pessure Retaining Plan Mark No. 3) Castings 1,172-77-7	Material S	100°F. 	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working: Pressure Pressure Retaining Plan Mark No. 3) Castinga 1,1-72-77-7	SA-351 CF8 SA-351 CF8	pac. No.	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working Pressure Pressure Retaining Pres Mark No. 3) Castings	SA-351 CF8 SA-351 CF8	pac. No.	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working: Pressure Pessure Retaining Pix Mark No. 3) Gastings 1,1-72-77-7 1-159-77-8	SA-351 CF8 SA-35T CF8	pac. No.	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working: Pressure Pessure Retaining Plan Mark No. 3) Castings 1,172-77-7	SA-351 CF8 SA-35T CF8	pac. No.	Qua:1	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Lold Working Pressure Peasure Retaining Pier Mark No. 10 Castings 1172-77-7 11 39-77-8	SA=351 GF8 SA=351 GF8 SA=351 GF8 SA=351 GF8	pac. No.	Qual Qual	Manufa i = Cas: i = Cas:t	t		Re Case	; :marks:
Jesighi Conditions: Lold Working: Pressure Peasure Retaining Pin Mark No. 3) Castings 11-72-77-7 11-89-77-8	SA-351 CF8 SA-35T CF8	pac. No.	Qual Qual	Manufa 1-Cas	t		Re Case	; :marks:
Design Conditions: Cold Working Pressure Mark No. Mark No. 1/172-77-7 1/189-77-8	SA=351 GF8 SA=351 GF8 SA=351 GF8 SA=351 GF8	pac. No.	Qual Qual	Manufa i = Cas: i = Cas:t	t		Re Case	; :marks:
Design Conditions: Lold Working Pressure Peasure Retaining Pier Mark No. 10 Castings 1172-77-7 11 39-77-8	SA=351 GF8 SA=351 GF8 SA=351 GF8 SA=351 GF8	pac. No.	Qual Qual	Manufa i = Cas: i = Cas:t	t	dess	Re Case	; :marks:
lesigni Conditions: Lold Working: Pressure Ressure Retaining Pier Mark No. 10. Castings 1.172-77-7 1.139-77-8	SA=351 GF8 SA=351 GF8 SA=351 GF8 SA=351 GF8	pac. No.	Qual Qual	Manufa i = Cas: i = Cas:t	t tair	lėss	Case Stuffin	ng. Box
lesigni Conditions: Lold Working: Pressure Ressure Retaining Pier Mark No. 10. Castings 1.172-77-7 1.139-77-8	SA=351 GF8 SA=351 GF8 SA=351 GF8 SA=351 GF8	pac. No.	Qual Qual	Manufa i = Cas: i = Cas:t	t tair	lėss	Re Case	ng. Box
Design Conditions: Lold Working Pressure Peasure Retaining Pier Mark No. 10 Castings 1172-77-7 11 39-77-8	SA=351 GF8 SA=351 GF8 SA=351 GF8 SA=351 GF8	pac. No.	Qual Qual	Manufa i = Cas: i = Cas:t	t tair	less M. Coo	Case Stuffin	ng. Box

(

^{*} Supplemental sheets in form of lists, exerches or drawings may be used provided: (1) size is 8:112" x Lt", (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.

^(3/77) This form (800037) may be obtained from the Order Dept., ASME, 345.E. 47.5t., New York,

FORM NPV-1 (Back)

Mark No.	Mctañal Spec. No:	Manu. urar	Remarks
] Zolting			
8784	1 SA=193 : 87	Metrix	Stud, Case
8785 0124	SA-194 2H	Matrix	Nut. Case
	SA-193 B8M;	Metrix	Stud., Gland
8787	SA-194-B84	Metrix	Nuc, Gland
A	SA-449 C1 2	Metrix	Capscrew Bracket, Mot
Ā	SA-325 Tp 1	Metrix	Solt, Pump
0610	SA-193 B7	Metrix	Taper Pin
P.D. 1-45565	SA-192304	Familian	Plug. Drain
(d) Other Parts (Se	rall Circulat on Piping)		
TH4051	5A-312: 30-	Tirbe Sales	Pipe
V.1:0	SA-182 304	Familian	Tee
V10"	SA-182 304	Familian	E-l'bow
VHV.	i SA-182:: 304	Familian	Plug
0637	SA-182, 304	Metrix	Orifice
VDO, VFA, VKO	SA~1821304	<u> Familian </u>	Union
			- (

9. Hydrostatic test 225/900 psi.

CERTIFICATE OF COMPLIANCE
We carify that the statements made in this report are correct and that this pump or valve, conforms to the rules of construction of the ASME Code for Nuclear Rower Plant Components: Section III, Div. L. Edition: 1974 Addenda W. 76 Code Case No. NA Date (Gate) Signod Bingham-Willamette Company by
Our ASME Certificate of Authorization No. N-1654 to use the N symbol expires 2728/83 (Oate)

	CERTIFICATION OF DESIGN
Design:information on file at	Bingham-Willamette Company , NA
Design specifications cartified by (1) PE State: Penn Reg. No. Stress analysis certified by (1) PC State: Unedon Reg. No. (1) Signature not required. List name only.	24928E Paul Oliver - Van Gulik Assoc.

CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressura Vessel Inspectors and the State or Province of Oregon and employed by Department
of Commence have inspected the pump; or valve, described; in this: Data Report on 19 30 and state that to the best of my knowledge and belief this Manufacturer has comstructed this pump, or valve, in accordance with the ASME Code, Section III.
By signing this certificate, neither the inspector non-his employer makes; any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector non-his employer shall be displained by manner for any personal injury or property damage or a less of any kind arising from or connected with this inspection.
Date

(*<u>*</u>

1E22-069

	NIS		S REPORT F					TS	
Pì	NPP No. 10282 I		equired by the Prov	ISIONS OF THE	e ASME Code Page 1 of 2	Section	XI	NQI-1741	
1.	Owner:	FIRS	TENERGY CORP.			Date _	1/26/07		
	_	10 Center F	Name <u>Road, Perry, Ohio</u> Address	44081		Sheet	<u>1</u> of	1	
2.	Plant:	Perry Nuclear Power Plant (PNPP) Unit 1 Name							
			Road, Perry, Ohio 4 Address	14081		2 <u>00203</u> (Repair On	387 ganization P.O. No.	., Job No., etc.)	
3.	Work Perfor		FIRSTENERGY C Name er Road, Perry, Ol Address			Authoriz	ode Symbol Sta zation No. on Date <u>9/28/08</u>	33	
4.	Identification	n of System: <u>HIG</u> I	H PRESSURE COI	RE SPRAY	1E22				
	(b) Applicable	e Edition of Section 2	N/A 1 XI Utilized for Repair	rs or Replace	ements 19 <u>89</u>			Code Case	
6.	Identification	n of Components F	Repaired or Replac	·	lacement Cor	nponents			
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
	PIPING	N/A	AMA	N/A	1E22F541B	N/A	replacement	No	
-									
-									
7.	Description	of Work: Replaced	d 2 way air start val	lve with nev	v valve. (This i	tem is no	ot built to		
			ME Section XI bound						
8.			Pneumat		ominal Operati	ing Press	sure- 🔀 Oth	er- 🗌	
	Pressure 23	<u>0</u> psi les	st Temperature 86	<u>}</u> °⊦					
NC	in., (20	information in Item	orm of lists, sketche ns 1 through 6 on tl er of sheets is reco	this report is	s included on e	each she			

P No 10282 Rev 7/22/05	Page 2 of 2	NQI-174
Remarks: None		
Applicable Manufac	cturer's Data Reports to be attached	
CERTIFICATE	OF COMPLIANCE	
We certify that the statements made in this report are corr ASME Code, Section XI.	rect and this <u>replacement</u> conforms repair or replacement	to the rules of the
Type Code Symbol Stamp NR		
Certificate of Authorization No. 33	Expiration Date 9/28/08	
Signed SR QC TRCH Owner or Owner's Designee, Title	Date 14 FEBRUARY	, 20 <u>07</u>
CERTIFICATE OF IN	SERVICE INSPECTION	
the undersigned, holding a valid commission issued by t and the State or Province of <u>Ohio</u> and emplo	oyed by HSBCT	of
HARTFORD, CT. Jescribed in this Owner's report during the period Note to the best of my knowledge and belief, the Owner had bescribed in this Owner's Report in accordance with the reference.	as performed examinations and taken corre	7. and state ctive measures
By signing this certificate neither the Inspector nor his emp oncerning the examinations and corrective measures des aspector nor his employer shall be liable in any manner fo and arising from or connected with this inspection.	scribed in the Owner's Report. Furthermore	e, neither the
Common de La Commo	misions NB 9330 "N" "I" "A" OHIO COMM National Board, State, Province, and	
Date 2/14 20 07	,	

1EZZ-070

	NIS	S-2 OWNER'S						TS
PI	NPP No. 10282 I		equired by the Prov	/ISIONS OF the	Page 1 of 2	Section		NQI-1741
1.	. Owner:	FIRST				Date	1/26/07	
	_	10 Center F	Name Road, Perry Ohio Address	2 44081		Sheet	<u>1</u> of	1
2.	. Plant:	Perry Nucl	1					
		10 Center Road, Perry, Ohio 44081 200203386 Address (Repair Organization P.O. N						
			Name er Road, Perry, O Address	Ohio 44081		Authoriz Expiration	ode Symbol Sta zation No ion Date <u>9/28/08</u>	33
4.	Identification	n of System: HIGI	H PRESSURE CO	RE SPRAY	1E22			
5		e Construction Code. <u>1</u> e Edition of Section)	=				nda, <u>N/A</u>	Code Case
6.	Identification	n of Components F	Repaired or Replac	ced and Rep	placement Cor	nponents	S	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
	PIPING	N/A	N/A	N/A	1E22F541A	N/A	replacement	No
-					<u> </u>		<u> </u>	
-						ļ		
					<u></u>			
7.		of Work: <u>Replaced</u> e but is in the ASM			v valve. (This i	tem is no	ot built to	
8.	Test Conduc	cted: Hydrostatic	c- Pneumal	itic- 🔲 No	ominal Operati	ing Pres	sure- 🗵 Oth	er- 🗌
	Pressure 23	30 psi Tes	st Temperature 86	%F				
NC	in., (20	emental sheets in fo information in Item red and the numbe	ns 1 through 6 on t	this report is	s included on e	each she		

	RS OR REPLACEMENTS	ь (васк)
PP No 10282 Rev. 7/22/05	Page 2 of 2	NQI-174
Remarks: Slight air leak at mechanical joint was evaluated Applicable Manufacturer's D leak will have no detrimental effect on the system performa	ata Reports to be attached	
tage.		
CERTIFICATE OF COME We certify that the statements made in this report are correct and ASME Code, Section XI.		to the rules of the
Type Code Symbol Stamp NR		
Signed Multiplication No 33 E Signed Multiplication No SIR QC TRCH Owner or Owner's Designee, Title	Expiration Date <u>9/28/08</u> Date <u>14 FEBRUARY</u>	, 20 <u>07</u>
I, the undersigned, holding a valid commission issued by the Natic and the State or Province of Ohio and employed by HARTFORD, CT. described in this Owner's report during the period MAY that to the best of my knowledge and belief, the Owner has perior described in this Owner's Report in accordance with the requirem By signing this certificate neither the Inspector nor his employer m concerning the examinations and corrective measures described in	have inspected the company to the state of the ASME Code, Section XI hakes any warranty, expressed or inspected of the ASME code, Section XI hakes any warranty, expressed or inspected or	of proponents and state ctive measures and state ctive measures applied,
Inspector nor his employer shall be liable in any manner for any pekind arising from or connected with this inspection. Commissions Date 20 07	ersonal injury or property damage o	r a loss of any

1 E22 - 072 Pg 1 of 2

NIS-	2/NR-1 OWNE As re	ER'S REPOR equired by the Prov					ENTS
PNPP No. 9308							NQI-1741
1. Owner: _	FIRS	TENERGY CORP.				Date <u>5-10-07</u>	
_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit <u>1</u>	
-	10 Center F	Road, Perry, Ohio	44081			20020836 (Repair Org. P.O. I	
						(Repair Org. F.O. I	vo., e(c.)
3. Work Perf	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	mpany PNPP	Туре	Code Symbol Stam	ıp <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33
						Expiration Date	9-28-08
4. Identificati	on of System: 1 E2	2 High Pressure C	ore Spray	<i>'</i>			
5. (a) Applica	able Construction Co	ode: ASME Section	n III - Clas	s II NC		,19 <u>74</u> Editi	on
. ,		NAME/SECT	TOMDIVISIO	DN/CLASS			
Winter						J-224-1, N-242,N-2	75, N-413
(b) Constr	ruction Code used for	or repairs, modifica	ations, or r	eplacement		W/75 Addenda	N/A Code Case(s)
(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989		N/A
		\$4.40% - J.C., F				ition Addenda	Code Case(s)
	able Edition of Secti		•	odification, (or Replac	cements:	
	, <u>N/A</u> 19 <u>N/A</u>	Cod	e Case(s)				
	n Responsibilities <u>F</u> on of Components F		or Poplar	corport Con	cacananta		
	· · · · · · · · · · · · · · · · · · ·	T	Nat.	- 	·	Repair,	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other ID.	Year Built	Replacement,	Code
PIPING	PULLMAN	E22	No. 86	1E22F00	1985	or Modification REPLACEMENT	Stamped YES
SYSTEM	POWER		00	34	1903	REPLACEMENT	163
				ļ ———			
ļ							
7. Description	of Work: Replace	old with new valve	SN E-295	P-1-2 and c	onnectin	g piping with new p	ipe
(HT 99035)	and elbow (HT 751	87)					
8. Test Condu	icted: Hydrostatic	- Pneumat	ic- 🗌 🛮 1	Nominal Op	erating P	ressure- 🗵 Oth	er- 🔲
Pressure 3	3.4 psi Tes	st Temperature 72	<u>2.1</u> c	legrees F	Code	Case(s) N-416-2	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back PNPP No. 9308 Rev. 9/11/00	() -1741
9. Remarks: NONE	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING I	— 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, Russ Matthys , 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, 2008	_
Date 5-10-07 Signed FENOC-PNPP (Los Matthewson OC Supervisor (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 an	nd
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO	
and employed by HARTFORD STEAM BOILER CT. of HARTFORD, CT have	e
inspected the repair, modification or replacement described in this report on MAY 11, 2007 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	
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 inspectio	- 1
Date 5/11, 20 07 Signed Thomas Logo Commissions NB 9330 "N"I"A" Ohio Comm. (inspector) (National Board (include endorsements and jurisdiction, and no.)	

1E22-072 P8272

FORM NPV-1 N CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES

	ed by	iserne Corn	Ol First St	reet. Williams	nert,	PA 17701	
1. Manufactur	The Ti	Name and Address o luminating Com	IN Certificate Ho	der) Box 94608, C16	evelánc	IV ОН 4410	1 - 46 OR
		Name and Address of Porry NPP, 10 Ce	inchisser or Owner)	ock D Worth	13.	ОН 44081	
l. Location of	- T	Name and Address):	ircer Roady	OCK (41, HOTEH	.r. e 1/e, y ,	On 44001	
Pump or V	alve: Valve	<u>ile destroptive e</u> Heriotek kolposite	نا القرائسولا ـــــــ	let Size (inch)	0. نـــــــيـ	ütlet Size	(inch)
(a) Mo	odel No., (b) N	Certificate Holder's	(c):Canadian	e e e e e e e e e e e e e e e e e e e		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
5.7	es No.	Serial,	Registration	(d) Drawing	en en en en en	(f) Nati	(3) X69t
or	Type:	No.	No.	Nő: Çurseye na inglatija yayır	θ) Ciass	Bđ. No	Built.
(1) Y-C	lobe	E-295P-1-7	N/A	7500001265 R/A	$i \in 1$	N/A	1999
(2)						undirings Has	397×35%
(3)			ekt dan belia a skri Geografia	oliko (koley/1961), 24 <u>6.</u> Esta esta (h. 1966)	验 (2) 49.2 第177		
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(5) <u></u>	- an fa 135 bet a 194 - Louis Den Sach 24		Paragraphic Company		<u>an indreside.</u> Na hand		
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(8)	نيځين <u></u>				Salar ea.		
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		(Brief descriptio	n of service for which	h equipment was design	(ed)		
					<u>Primaliji vale</u> Modeliji	<u> </u>	anangan perdalah Kabupatèn perdalah
Design Conc	ditions 268		650	°F or Valve Press	ure Class	1500:	and San
Cold Workin	(P	70 5 psi at	(Jemparature)				
	taining Pieces						
M	ark No	Material S	oac No	Manufacture:	igana yasa Yan		
	1.7			Wandiacture		Remari	(5)
(a) Castings	<u> </u>			, filosofieta e en especialista. A especial de la como			
	197A: /						
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(b) Förgings				<u>a nederio delle provincio delle</u> pri la compania	<u>ng tanggalang</u> Kilong Termin	<u>Produktorist stantalis</u> Mēzdasas stant	
Body	HT #A22	SA105		BW/IP INt!I In	čć, Pui	np Diy	
S/N	- 10			rengalisation de la Calendaria. Notation de la Calendaria.			
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This form (E00037) may be obtained from the Order Dept. ASME: 345 E. 47th St. New York, N.Y. (2017)

⁽¹⁾ For manually operated valves only.

^{*} Supplemental spects in form of tists; sketches or drawings may be used provided (1) size is 8.112 x 11...(2) intomation 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.

1 Mg

Mark No.	Material Speci No.	Manufacturer	Remarks.
(c) Bolting:		Annon a series as a series and	
N/A			
			善於其意思的
<u> </u>			<u> 1907 - Transpara de la color de transpara.</u> Prima de transpara de la color de t
		April 4 Prilitin 2	
(d) Other Parts			
Bonnet R/S #316683	SA47,9=316	BW/IP Int 1 Inc., P	ump Div.
S/N - 8	<u> </u>	Andreas de la companya del companya del companya de la companya de	Kanada Para
Disc. HT #715898	SA479-316	Carpenter Technolog	ý Corn
S/N/ - 4/			Bec. 302 F. B. A
			
5575	405		<u>eta dente la proposició de la colo</u>
9. Hydromatic test5575pn	Disk Differential test pressure	ou	
Addenda Witter 1978 County Signed Flowserve Corp N'Cediff are not Our ASME Centificate of Author Design information on file at E Stress analysis report (Class Witter Design specifications certified to PA Stress analysis certified by (II)	CERTIFICATION OF CERTIFICATION OF Towserve Corp. 701 First only on file at Plowserve Corp. Litamsport, PA 617701 y(1) Francis C Rosch, In	the N symbol DESIGN St. Williamsport.	<u>L9</u>
(1) Signature not required. List		<u>androue a folk dependen eller op</u> ning a sommer er at t	
and a contribution of a second of the second			
of Boston MA	CERTIFICATE OF SHOP (alid commission issued by the Nationsylvania) have inspected the gaze and state that to the best of many that is the commission of the	onal Board of Boiler and Prend employed by Ommer.ical	<u>Union Ins. Co.</u>
By signing this certificate neith	and state that to the best of me accordance (with the ASME Code, Se service the Inspector nor this employer me so bata Report Furthermore, neither or property damage or a loss of any 1000	ction III. akes: any, warranty, expressed, the Inspector, nor his employed	ar implied, concerning
Date Karles Van	9 19 99; 20 Commission	Pennsylvania 239	2

1E51-139

141 1 1	Rev. 9/11/00				ode Sect		NQI-1741
						7.1 10.00.05	
I. Owner:		TENERGY CORP.				Date 12-20-05	
	10 Center	Road, Perry, Ohio) 44081			Sheet 1 of	2
?. Plant:	Perry Nuc	lear Power Plant (f	PNPP)			Unit one	
	10 Center Road, Perry, Ohio 44081 ORDER 2000950 (Repair Org. P.O. N						
. Work Perfo	ormed By: <u>FIRSTE</u>	ENERGY Nuclear Op	erating Cor	npany PNPF	2	Type Code Syml	bol Stamp
10 Center Road, Perry, Ohio 44081 Authorization No.							33
						Expiration Date	09-26-200
. Identificatio	in of System: 1E5	1 RX ISOLATION	COOLING	SYSTEM			
. (a) Applicat	ole Construction C	ode: ASME SECT	ION III CLA	ASS NC		,19 <u>74</u> Editi	on
WINTE	R 19 75				8 <u>, N-224,</u>	N-241, N-242, N-2	72, N-275
N-413							
(b) Constru	uction Code used f	or repairs, modifica	ations, or r	eplacemen			NA
/~ \ A C M E (Cada Saction VI a	anticable for Income	i-a lacaca	Can.		ilion Addenda	Code Case
(C) ASIVIC	Oue Section VI at	pplicable for Inserv	ICG ILIPAGO	HOD:	1889	NA	NA
			•			ition Addenda	Code Case
(d) Applica	ble Edition of Sect	ion XI Utilized for F	·		Ed	ition Addenda	
	ble Edition of Sect	Addenda n/a	Repairs, Mo		Ed	ition Addenda	
19 <u>89</u> ,	<u>n/a</u> 19 <u>n/a</u>	Addenda n/a	Repairs, Mo	odification,	ed or Replac	ition Addenda	
19 <u>89</u> , (e) Design	<u>n/a</u> 19 <u>n/a</u> Responsibilities <u>F</u>	Addenda <u>n/a</u> Cod	Repairs, Mo e Case(s) ir Operatin	odification, q Company	Ed or Replac <u>/ PNPP</u>	ition Addenda cements:	
19 <u>89</u> , (e) Design	<u>n/a</u> 19 <u>n/a</u> Responsibilities <u>F</u>	Addenda <u>n/a</u> Cod irst Energy Nuclea	e Case(s) ir Operation , or Replace Nat. Board	odification, q Company	Ed or Replac <u>/ PNPP</u>	Repair, Replacement,	Code Case ASME Code
19 89_, (e) Design Identification Name of Component	n/a 19 n/a Responsibilities <u>F</u> n of Components F Name of Manufacturer	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No.	Repairs, Mo	odification, q Company cement Cor Other 10.	or Replace PNPP ponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 <u>89</u> , (e) Design Identification	n/a 19 n/a Responsibilities <u>F</u> n of Components F Name of	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer	e Case(s) ir Operation , or Replace Nat. Board	odification, q Company cement Cor	ed or Replace PNPP Ponents Year	Repair, Replacement,	ASME
19 89 , (e) Design Identification Name of Component	n/a 19 n/a Responsibilities F n of Components F Name of Manufacturer PULLMAN	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No.	Repairs, Mo	odification, q Company cement Cor Other 10.	or Replace PNPP ponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identification Name of Component	n/a 19 n/a Responsibilities F n of Components F Name of Manufacturer PULLMAN	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No.	Repairs, Mo	odification, q Company cement Cor Other 10.	or Replace PNPP ponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identification Name of Component	n/a 19 n/a Responsibilities F n of Components F Name of Manufacturer PULLMAN	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No.	Repairs, Mo	odification, q Company cement Cor Other 10.	or Replace PNPP ponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
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19 89_, (e) Design Identification Name of Component	n/a 19 n/a Responsibilities F n of Components F Name of Manufacturer PULLMAN	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No.	Repairs, Mo	odification, q Company cement Cor Other 10.	or Replace PNPP ponents Year Built	Repair, Replacement, or Modification	ASME Code Stamped
19 89 , (e) Design Identification Name of Component PIFING	n/a 19 n/a Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN POWER of Work: <u>REPLAC</u>	Addenda <u>n/a</u> Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No. 1E51	e Case(s) or Operation Nat. Board No.	odification, q Company cement Cor Other ID. N/A	or Replace PNPP Ponents Year Built 1985	Repair, Replacement, or Modification	ASME Code Stamped YES
19 89 , (e) Design Identification Name of Component PIPING Description of (1E51F0011)	n/a 19 n/a Responsibilities <u>F</u> n of Components F Name of Manufacturer PULLMAN POWER of Work: <u>REPLAC</u>	Addenda n/a Cod irst Energy Nuclea Repaired, Modified Manufacturer Serial No. 1E51 ED 6" DIA, DUO C	Repairs, Me e Case(s) or Operation Nat. Board No. 84	odification, q Company cement Cor Other ID. N/A	or Replace PNPP Ponents Year Built 1985 NEW VA	Repair, Replacement, or Modification REPLACEMENT	ASME Code Stamped YES

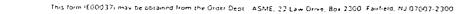
NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No 9308 Rev. 9/11/00 NQI-1741
9. Remarks: <u>N/A</u>
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
Note: Attach all applicable Manufacturer's 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, <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 08
Date 12/21) 2075 Signed FENOC-PNPP Devenue OE (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION 1. 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 I&I CT. of HARTFORD, CONN. have
inspected the repair, modification or replacement described in this report on DEC 21, 20 05 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 12 21, 20 95 Signed Thomas Library Commissions NB 9330 "N" "I" "A" OHIO COMM. (inspector) (National Board (include endorsements), and jurisdiction, and no.)

1E51-139 pg 2012 1E51-139 pg 2012

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_	
			name and address of N	Certificate Holder!		MA 0197(
2. Manufactured for	First Energ	y Corp., P.O.	Box 3611, Ak	ron, OH 44	309-3611	
	D	lna 	ime and address of Puri	haserl		
3. Location of install	lation Perry I	uclear Plant,			erry, OH 44081	•
4. Nindel No., Series	No., or Type Dua	1 Plate Drawin	Iname and addre	Rev. 0	CRN_N/A	
5 ASME Code, Sect	tion III, Division 1:	1974	Winter 1975	2	N/A ICode Case no.1	
6 Pump or valve	Valve	Nominal inlet size		lutlet size		
7 Material, Body_		Bonnet N/A	Disk SA4		Bolting N/A	
(a)	(6)	(i	:1	(d)	(e)	
Cen.	l'telf	Ве	dy	Bonnet	Disk	
Holder's	Board	Se	rial	Serial	Senal	
Senal No	No.	<u> </u>	·	No.	No.	
2 -11683-01	N/A	HT#: 99	94	N/A	HT#: 99105	
			166		S/N: L167 & L16	8
						
	-					
		·				
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	•				·	
					<u> </u>	
£						
on this Data Report is inc	n in form of lists, sketc luded on each sheet 10	nes, or drawings may be Breach sheet is numbered	used provided (1) size and the number of the	is 8% ≠ 11, l2t in ets is recorded at t	itormation in items 1 through 4 the top of this form	





(12 98)

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

	Certificate Holder's Serial No. 4-11081-01
8. Design conditions 285 psi 100	°F or valve pressure class 150
(pressure) (tempera	eture)
7. Cold working pressure 285 psi at 100°F	
D. Hydrostatic test <u>450</u> psi. Disk differential te:	st pressure 325
5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(12 - 26)
1. Remarks: Pin Retainer SA479, 410 HT.G3	617 TR: 76D
CERTIFICATION	A OE DECICN
CEATIFICATION	TOF DESIGN
Design Specification condited by H.R. Peppert	P.E. State PA Reg. no. 24928E
Design Specification condited by H.R. Pepmert Design Report certified by N/A	P E. State N/A Reg no. N/A
	
CERTIFICATE OF	COMPLIANCE
No certify that the statements made in this report are correct and	table the number of value conforms to the rules for construction
of the ASME Code, Section III, Division 1.	that this pump of varie comonits to the fales for construction
Certificate of Authorization No. N. 2606	Espires 6/13/01 2
late \$\frac{F}{5}\frac{99}{99} Name Atwood & Norrill Co.,	R . A & W.
late 15/19 Name Atwood & Morrill Co.,	Inc. Signed Dorlan (Sulling
IN Cortificate Holder)	(authorized representative)
CERTIFICATE OF	INSPECTION
CENTIFICATE OF	NA24 ECTION
the undersigned, holding a valid commission issued by the N	National Board of Boiler and Pressure Vessel Inspectors and
ne State or Province of Massachusetts	and employed by H.S.B.I.& I. Co.
Hartford, CT have in	expected the gump, or valve, described in this Data Report on
ALK 5, 1999 and state that to the best	of my knowledge and belief, the Certificate Holder has con-
ructed this pump, or valve, in accordance with the ASME Code	
y signing this certificate, neither the inspector nor his employe	r makes any warranty, expressed or implied, concerning the
omponent described in this Data Report. Furthermore, neither th	
ny personal injury or property damage or a loss of any kind arisin	
are S/5/44 Signed / Signed S	issions AIA-1327
(Authorized Inspector)	[Nat'l, Bd, (incl. endorsements) and state of prov. and no.]

(1) For manually operated valves only

 $\begin{pmatrix} RI \\ DB \end{pmatrix}$

1E51-140

NIS	-2/NR-1 OWNE	ER'S REPOR equired by the Prov					ENTS	
PNPP No. 930	08 Rev. 9/11/00		1510115 01 11				NQI-1741	
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-2-2007</u>		
	10 Center	Road, Perry, Ohio	44081	***************************************		Sheet 1 of	1	
2. Plant:		lear Power Plant (I				Unit 1		
	10 Center	Road, Perry, Ohio	44081			20018815 (Repair Org. P.O. N		
3. Work Pe	rformed By: FIRSTE	NERGY Nuclear Op	erating Cor	npany PNPP	Type (Code Symbol Stam	p NR	
	-	enter Road, Perry,			, ,,	Authorization No33		
						Expiration Date 9-28-08		
4 Identifies	tion of System:	Peactor Coro los	olation Cor	olina Sveton	 o E51			
	•							
5. (a) Applio	cable Construction C	ode: ASME NAME/SECT	Section III	Class 2 - N N/CLASS	C	<u>,1974</u> Editi	on	
Wint	er 1 <u>975</u> Addenda	Code Case(s) <u>172</u>	<u>8, 1644-5,</u>	N-224, N-2	41, N-24:	2, N-272, N-275, N	-413	
(b) Cons	truction Code used f	or repairs, modifica	ations, or r	eplacement		W75 Addenda	N/A Code Case(s)	
(c) ASM	E Code Section XI ap	oplicable for Inserv	ice Inspec	tion:	1989 Edi	N/A tion Addenda	N/A Code Case(s)	
(d) Appli	cable Edition of Sect	on XI Utilized for F	Repairs, M	odification, o	or Replac	ements:		
<u>1989</u>	<u>N/A</u> 19 <u>N/A</u>	Addenda <u>N/A</u>	\					
(e) Desig	Code Case(s) (a) Design Responsibilities FENOC							
	6. Identification of Components Repaired, Modified, or Replacement Components							
Name of Componer		Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
Piping System	Pullman Power	1E51	84	1E51D00 02	1985	Replacement	YES	
7 Descriptio	on of Work: Replace	runture disc SN 99	09003-1 v	vith new run	ture disc	SN A10900001	L	
8. Test Cond				Nominal Ope			er- 🗍	
	Pressure NA psi Test Temperature NA 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:
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, Russ Matthys, 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 9-28-2008
Date 5-2-2007 Signed FENOC-PNPP Was Matter OC Supervisor (name of repair organization) (authorized represent vive) (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, CT. have
inspected the repair, modification or replacement described in this report on MAY 2, 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 arising from or connected with this inspection.
Date 5/2, 2007 Signed Thomas II Commissions NB 9330 "N"!"A" Ohio Comm (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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1ESI-141

NIS-2/NR-1 O	WNER'S REPOR As required by the Prov					ENTS	
PNPP No. 9308 Rev. 9/11/00	As required by the rivov		————			NQI-1741	
1. Owner:	FIRSTENERGY CORP.				Date <u>5-5-2007</u>		
	enter Road, Perry, Ohio	44081			Sheet 1 of		
2. Plant: Perr	γ Nuclear Power Plant (F	PNPP)			Unit 1		
10 Ce	enter Road, Perry, Ohio	44081			20006294 (Repair Org. P.O. N		
3. Work Performed By: <u>F</u>				Туре С	Code Symbol Stam	• —	
	10 Center Road, Perry,	Ohio 4408	<u>.1</u>	Authorization No. 33			
					Expiration Date 9	9-28-08	
4. Identification of System:	Reactor Core Iso	olation Coc	ling System	1_E51			
5. (a) Applicable Construct	tion Code: ASME:	Section III	Class 1 - NI N/CLASS	<u>F</u>	<u>,1974</u> Editi	on	
Winter 1975 Adden	da Code Case(s) 172	8, 1644-5,	N-224, N-2	41, N-242	<u>?, N-272, N-275, N</u>	-413	
(b) Construction Code (used for repairs, modifica	ations, or re	eplacement		tion Addenda	N/A Code Case(s	
(c) ASME Code Section	n XI applicable for Inserv	ice Inspect	ion:	<u>1989</u> Edil	N/A tion Addenda	N/A Code Case(s	
, , , , ,	f Section XI Utilized for F N/A Addenda N/A Code	-	odification, c	or Replac	ementš:		
(e) Design Responsibili							
Identification of Compon	ents Repaired, Modified	, or Replac	ement Com	ponents			
Name of Name of Component Manufacti		Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped	
Piping Pullman Por System	wer 1E51	84	1E51H00 73	1985	Replacement	YES	
		-		·			
		<u> </u>					
7. Description of Work: Re	place snubber SN 61400)1-94 (exis	ting) w/new	snubber	SN 04616533/011		
3. Test Conducted: Hydro	ostatic- Pneumat	iic- 🔲 N	Nominal Ope	_		er- 🗌	
Pressure NA psi	Test Temperature N.	<u>A</u> d	legrees F	Code	Case(s) N/	Δ	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00
9. Remarks:
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, Russ Matthys, 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 9-28-2008
Date 5-5-2007 Signed FENOC-PNPP Que Matter QC Supervisor (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, CT. have
inspected the repair, modification or replacement described in this report on 12 20 01 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.
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concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 5 11, 20 07 Signed Thomas Law Commissions NB 9330 NTA Commissions (National Board (include endorsements), and jurisdiction, and no.)

1E51-142

N13-Z PNPP No. 9308 F	As re	quired by the Prov				REPLACEM ion XI	NQI-1741
I. Owner:		TENERGY CORP.				Date <u>5-5-2007</u>	
		Road, Perry, Ohio	44081			Sheet <u>1</u> of	_
?. Plant: 		lear Power Plant (F Road, Perry, Ohio 4				Unit <u>1</u> 20006295 (Repair Org. P.O. N	
. Work Perfo	rmed By: <u>FIRSTE</u> 10 Ce	NERGY Nuclear Ope enter Road, Perry,			Туре (Code Symbol Stam Authorization No Expiration Date	np <u>NR</u> 33
. Identification	n of System:	Reactor Core Isc	olation Coc	oling Systen	n E51		
. (a) Applicab	ole Construction Co	ode: ASME S	Section III	Class 1 - N	F	,1974 Editi	on
						2, N-272, N-275, N	
(b) Constru	ection Code used for	or repairs, modifica	itions, or re	eplacement		W75 ition Addenda	N/A Code Case(
(c) ASME (Code Section XI ap	plicable for Inservi	ice Inspect	ion:	1989	N/A ition Addenda	N/A Code Case(
<u>1989, N</u>	ble Edition of Secti /A 19 <u>N/A</u> Responsibilities	Addenda <u>N/A</u>		odification, o	or Replac	ements:	
Identification	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	1E51	84	1E51H00 74	1985	Replacement	YES
		<u> </u>					
Description of	of Work: Replace:	snubber SN 61400	1/95 (exis	ting) w/new	snubber	SN 04616533/001	
Test Conduc	cted: Hydrostatic	- 🗍 Pneumati	ic- 🔲 N	lominal Ope	erating Pi	ressure- Oth	er- 🗌
Pressure NA	A psi Tes	st Temperature N/	<u>4</u> d	egrees F	Code	Case(s)N//	<u> </u>

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
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, Russ Matthys 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 9-28-2008
Date 5-5-2007 Signed FENOC-PNPP Curs made OC Supervisor (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, THO MAS 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, CT. have
inspected the repair, modification or replacement described in this report on MAY 10 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 arising from or connected with this inspection. Date 510, 20 07 Signed Thomas Logar Commissions UB 9330 NTA OHIO (National Board (include endorsements)),
and jurisdiction, and no.)

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1657-143

	As re	equired by the Prov				REPLACEMI ion XI	ENIS
PNPP No. 9308	Rev. 9/11/00						NQI-1741
1. Owner: _	FIRS	TENERGY CORP.				Date <u>5-5-2007</u>	-
-	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	1
2. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit 1	
_	10 Center F	Road, Perry, Ohio 4	14081			20006295 (Repair Org. P.O. N	
3. Work Perf	ormed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP	Туре	Code Symbol Stam	np <u>NR</u>
	10 Ce	enter Road, Perry,	Ohio 4408	<u> </u>		Authorization No)33
						Expiration Date §	9-28-08
4. Identification	on of System:	Reactor Core Iso	olation Cor	oling System	n E51		
5. (a) Applica	able Construction Co		Section III		F	,1974 Editi	ion
Winter	r 1975 Addenda	Code Case(s) <u>172</u>	<u>8, 1644-5,</u>	N-224, N-2	.41, N-24	2, N-272, N-275, N	I-413
(b) Constr	ruction Code used fo	or repairs, modifica	ations, or re	eplacement		W75 dition Addenda	N/A Code Case(s
(c) ASME	Code Section XI ap	plicable for Inservi	ice Inspec	tion:	<u>1989</u> Edi	N/A dition Addenda	N/A Code Case(s
	able Edition of Secti N/A 19 <u>N/A</u>	Addenda <u>N/A</u>	•	odification, o	or Replac	:ements:	
(e) Design	Responsibilities _						
. Identificatio	on of Components F	Repaired, Modified.	, or Replac	ement Corr	aponents		
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	1E51H20 78	1985	Replacement	YES
			 			 	-
				 	<u> </u>	 	
<u></u>			<u> </u>		<u></u>	<u></u>	لـــــــــــــــــــــــــــــــــــــ
. Description	of Work: Replace s	snubber SN 61319)-102 (exis	ting) w/new	, snubber	· SN 04616353/013	3
. Test Condu	icted: Hydrostatic	:- 🔲 Pneumati	.ic- 🗌 1	lominal Opr	erating P	ressure- Othe	er- 🗌
Pressure N	NA psi Tes	st Temperature NA	<u>A</u> d	legrees F	Code	Case(s) N/A	Α

lote: Altach 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 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. CERTIFICATE OF COMPLIANCE I. Russ Matthys 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 ASN Code and to the National Board Inspection Code "NR" rules. National Board Certificate of Authorization No3	Domarke:			
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any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspect	CEI I. THOMAS G. LASS Pressure Vessel Inspectors and cand employed by HSB CT Inspected the repair, modification the best of my knowledge and be	RTIFICATE OF INSPECTION, holding a valid concertificate of competency issure. T. nor replacement described in elief, this repair, modification o	INSERVICE INSPECTION mmission issued by The National E ed by the jurisdiction of OHIO of Hartford, CT. this report on MAGID, 20 07 r replacement has been complete	Board of Boiler and have and state that to
N	CEI I. THOMAS G. LAPS Pressure Vessel Inspectors and cand employed by HSB C1 inspected the repair, modification the best of my knowledge and be Section XI of the ASME Code and	RTIFICATE OF INSPECTION, holding a valid concertificate of competency issure. The or replacement described in the second concertion of the National Board Inspectice.	INSERVICE INSPECTION mmission issued by The National E ed by the jurisdiction of OHIO of Hartford, CT. this report on MA(10, 20 07) r replacement has been complete on Code "NR" rules.	Board of Boiler and have and state that to d in accordance with
· · · · · · · · · · · · · · · · · · ·	CEI I. THOMAS G. LAPS Pressure Vessel Inspectors and cand employed by HSB CT inspected the repair, modification the best of my knowledge and be Section XI of the ASME Code and By signing this certificate, neither	RTIFICATE OF INSPECTION, holding a valid cor certificate of competency issue f. n or replacement described in elief, this repair, modification o d the National Board Inspection the undersigned nor my emp	INSERVICE INSPECTION mmission issued by The National E ed by the jurisdiction of OHIO of Hartford, CT. this report on MA(10, 20 07) r replacement has been complete on Code "NR" rules. loyer makes any warranty, expres	Soard of Boiler and have and state that to d in accordance with
Date 5/10, 20 07 Signed Thomas & Son Commissions NB 9330 NEA	CEI I, THOMAS G. LASS Pressure Vessel Inspectors and cand employed by HSB CI inspected the repair, modification the best of my knowledge and be Section XI of the ASME Code and By signing this certificate, neither concerning the work described in	RTIFICATE OF INSPECTION, holding a valid concertificate of competency issues. The or replacement described in elief, this repair, modification of the National Board Inspectic the undersigned nor my empthis report. Furthermore, neith	INSERVICE INSPECTION mmission issued by The National E ed by the jurisdiction of OHIO of Hartford, CT. this report on MANIO, 20 07 r replacement has been complete on Code "NR" rules. loyer makes any warranty, expres her the undersigned nor my emplo	Board of Boiler and have and state that to d in accordance with sed or implied, byer shall be liable in
(inspector) Commissions NB 4330 N LA COMMISSIONS (National Board (include endorsemen	CEI I. THOMAS G. LARS Pressure Vessel Inspectors and cand employed by HSB CT inspected the repair, modification the best of my knowledge and be Section XI of the ASME Code and By signing this certificate, neither concerning the work described in any manner for any personal injure.	RTIFICATE OF INSPECTIONholding a valid cor- certificate of competency issue T. nor replacement described in- elief, this repair, modification o d the National Board Inspection the undersigned nor my empirate in the undersigned nor my empirate in the transport. Furthermore, neither, property damage or toss of	INSERVICE INSPECTION mmission issued by The National E ed by the jurisdiction of OHIO of Hartford, CT. this report on MANIO, 20 07 r replacement has been complete on Code "NR" rules. loyer makes any warranty, expres her the undersigned nor my emplo	have and state that to d in accordance with sed or implied, over shall be liable in

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1E51-144

-14FF FIU. 93U8 F	Rev. 9/11/00	equired by the Prov		IE ASIVIE C			NQI-1741
1. Owner	FIRS	TENERGY CORP.				Date <u>5/9/07</u>	
	10 Center	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant:	Perry Nuc	lear Power Plant (PNPP)			Unit <u>1</u>	
	10 Center	Road, Perry, Ohio	44081			200168010 (Repair Org. P.O. N	lo., etc.)
. Work Perfo	ormed By: FIRSTE	ENERGY Nuclear Op	erating Cor	npany PNPP		Type Code Symt	ool Stamp <u>I</u>
	10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33_
,						Expiration Date !	9/28/08
. Identificatio	on of System: Rea	ctor Core Isolation	Cooling 1	E51			
. (a) Applicat	ble Construction C	ode: <u>ASME SECT</u> NAME/SECT	ION III CLA	ASS 1 DN/CLASS		,19 <u>74</u> Editi	on
WINTE	R 19 75	Addenda Code	Case(s) <u>N</u>	I/A			
(b) Constru	uction Code used f	or repairs, modification	ations, or r	eplacement	s: 1974	W75	AN
. ,		·			Ed	ition Addenda	Code Case
(c) ASME	Code Section XI a	oplicable for Inserv	ice inspec	uon:	<u>1989</u> Ed	NONE Addenda	N/A Code Case
. ,		ion XI Utilized for F	•	odification, o	or Replac	cements:	
	Responsibilities E		e Case(s)				
-	_	Repaired, Modified	, or Replac	cement 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
	Rockwell	RA-53	824	1E51F066	1982	REPLACEMENT	YES
Valve							
Valve		<u> </u>				l e	
valve				ļ			
valve							
valve							
	of Work: <u>Installed</u>	new disc retainer	insert ass	embly s/n 7	1996-2.		
Description	of Work: <u>Installed</u>					ressure- 🛛 Othe	er- \square

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 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 9 may 20 07 Signed FENOC-PNPP Mind Jaid OC 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 of OHIO
and employed by HSB CT. of Hartford, Conn. have
inspected the repair, modification or replacement described in this report on MAY 9, 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 arising from or connected with this inspection.
Date 5/9, 20 07 Signed Innwy John Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1E51 - 14/4/ SHERT 20

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES.

As Required by the Provisions of the ASME Code, Section III, Div. 1

Manufactured by Roc	(Name and Address	of N Certificate F	Holder)			
Manufactured for <u>Cle</u>	Name and Address of F	Ourchaser or Owner)				
Location of Installation	Perry Nuclear (Name and Address)	Power Plant	. Units 1 & 2	North	Perry,Ohio	0
Pump or Valve <u>Val</u>		Nominal	Inlet Size(inc	6 O	utlet Size	6 (inch)
(a) Model No., (b)	N Certificate Holder'	s (c) Canadian				
Series No	Serial	Registration	(d) Drawing		(f) Nat'l.	ig) Year
or Type	No.	No.	No.	(e) Class	Bd. No.	Built
(1) 4094 (WCC) JC	TY RA-53	N/A	D82-24401-17	1	824	1982
(2)	· 		Rev. B			
(3)						
(4)				_		
(5)						
(6)						
(7)						
9)						
10)						
Design Conditionsl Cold Working Pressure _ Pressure Retaining Piece	(Pressure) 1535 psi at	(Température)	r or valve Fre	ssure Class		(1)
Mark No.	Material	Spec. No.	Manufactu	irer	Remai	rks
a) Castings						
F4743	SA-216 Gr. 1	WCC	Quaker_Allo	у	<u> Eody</u>	
						KENI AFE
	-		 		/3	BY (A)
					8	-6547; m
						0
b) Forgings						*A17Q*
T-5980	SA-105		Charles E.	Larson	Cover	

SA-105

SA-105

SA-638 Gr. 660T2

SA-182 Gr. F316L

T-5980

10502

39796

1G3766

3

Test Fitting

Gasket Retainer

Indicator Housing

Disk

Charles E. Larson

Charles E. Larson

Charles E. Larson

Charles E. Larson

⁽¹⁾ For manually operated valves only.

^{*} Supplemental sheets in form of lists, sketches or drawings may be used prosided (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.

Mark No.	Material Spec. No.	Manufacturer	Remarks
c) Bolting N/A			
		· ·	
(d) Other Parts			
VA7762 ·	CA 106 C= P	Capitol Pipe	Equalizer
KA7762	SA-106 Gr. B	Capitor ripe	Equalizer
edicestatic test 2300	psi. Disk Differential test pressure	1550 psi	
	par. Disk British less pressures	pn.	
struction of the ASME enda <u>Winter 1975</u> (Date)	nents made in this report are corrected for Nuclear Power Plant Control of the North Control of the North Control of the North American Corp.	omponents. Section III, Div. 1., E	If 16 fe2
struction of the ASME lenda <u>Winter 1975</u> (Date) ned <u>Rockwell In</u> (N Certificate	Code for Nuclear Power Plant Co , Code Case NoN nternational Corp.	omponents. Section III, Div. 1, 16 A Date by Manager, Quality	If 16 fe2
struction of the ASME Benda <u>Winter 1975</u> (Date) ned <u>Rockwell In</u> (N Certificate	Code for Nuclear Power Plant Community Code Case NoN	by Manager, Quality to use the N	edition 1974
struction of the ASME lenda Winter 1975 (Date) med Rockwell In INCentificate of Au ASME Certificate of Au agn information on file	Code for Nuclear Power Plant Code Code Case No	omponents. Section III, Div. 1. 6 A Date by Standard Manager, Quality to use the N sym (N) OF DESIGN al Corp., Raleigh, NC	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME Jenda Winter 1975 (Date) ned Rockwell In (N Certificate ASME Certificate of Au	Code for Nuclear Power Plant Code Case NoN. Sternational Corp. He Holder) Atthorization No1562	omponents. Section III, Div. 1. 6 A Date by Standard Manager, Quality to use the N sym (N) OF DESIGN al Corp., Raleigh, NC	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME denda Winter 1975 (Date) ned Rockwell In (N Certificate of Au ASME Certificate of Au sign information on file ess analysis report (Clas-	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date by	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME denda Winter 1975 (Date) med Rockwell In (Neerificate of August) ASME Certificate of August) august information on file ess analysis report (Classian specifications certificate Pa.	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date by	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME lenda Winter 1975 (Date) med Rockwell In (Neerificate of August) ASME Certificate of August) agn information on file less analysis report (Classian specifications certificate	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date by	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME lenda Winter 1975 (Date) med Rockwell In (N Certificate of Au ASME Certificate of Au agn information on file is an analysis report (Classing specifications certificate Pa. ss analysis certified by State Pa.	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date by	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME lenda Winter 1975 (Date) med Rockwell In IN Certificate of Au ASME Certificate of Au agn information on file less analysis report (Classing specifications certificate Pa. ess analysis certified by State Pa.	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date	Edition 1974 1/16/62. Wale Assurance bol expires 11/26/85 (Date)
struction of the ASME lenda Winter 1975 (Date) med Rockwell In (N Certificate of Autoriticate	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date / by Standard Date / Manager, Quality to use the N sym (N) OF DESIGN al Corp., Raleigh, NC International Corp., R	Edition 1974 1/16/62. Walk ASSULENCE bol expires 11/26/85 (Date)
struction of the ASME lenda Winter 1975 (Date) med Rockwell In (N Certificate of Au ASME C	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date by	Edition 1974 1/16/62. ASSULANCE bol expires 11/26/85 (Date) Aleigh, NC
struction of the ASME denda Winter 1975 (Date) ned Rockwell In (N Certificate of Autority) ASME Certificate of Autority (Date) sign information on file ess analysis report (Classian specifications certified by State Pa. Signature not required. The undersigned, holding the State or Province of Hartford, Ct.	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 6 A Date / Dy Manager, Quality to use the N sym (N) OF DESIGN al Corp., Raleigh, NC International Corp., R 1. Jr. HOP INSPECTION e National Board of Boiler and — and employed by HSB the pump, or valve, describers of my knowledge and belief, the	Pressure Vessel Inspectors It I Co. d in this Data Report on
struction of the ASME denda Winter 1975 (Date) med Rockwell In IN Certificate of Au sign information on file less analysis report (Classian specifications certificate Pa. ess analysis certified by State Pa. Signature not required. Signature not required. The Undersigned, holding the State or Province of Hartford, Ct. Well March and Control of Control of Control of Ct. Well March and Ct. Action of Ct. Control of Ct.	Code for Nuclear Power Plant Code Case No	omponents. Section III, Div. 1. 16 A Date	Pressure Vessel Inspectors To in this Data Report on NCertificate Holder has con-
struction of the ASME denda Winter 1975 (Date) ned Rockwell In IN Certificate of Autoriticate	Code for Nuclear Power Plant Code Case No	Date	Pressure Vessel Inspectors To in this Data Report on N Certificate Holder has conseed or implied, concerning loyer shall be liable in any

1E51-145

PNPP NO. 9300	Rev. 9/11/00						NQI-1741
1. Owner: _	FIRS	TENERGY CORP.				Date <u>5-14-200</u>)7
		Road, Perry, Ohio				Sheet 1 o	
2. Plant: _	Perry Nuc	lear Power Plant (PNPP)			Unit 1	
_	10 Center I	Road, Perry, Ohio	44081	 -		20016779 (Repair Org. P.O. I	
3. Work Perfo	ormed By: FIRSTE	NERGY Nuclear Op	erating Cor	mpany PNPF	Туре	Code Symbol Stan	p <u>NR</u>
	10 C	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	
						Expiration Date	9-28-08
 Identification 	on of System:	Reactor Core Is	olation Co	oling Syster	n E51		· .
5. (a) Applicat	ble Construction Co	ode: <u>ASME</u> NAME/SECT	Section III	Class 2 - N DN/CLASS	<u>C</u>	1974 Edit	ion
Winter	1975 Addenda	Code Case(s) <u>172</u>	8, 1644-5,	N-224, N-2	41, N-24	2, N-272, N-275, N	J-413
(b) Constru	uction Code used for	or repairs, modifica	ations, or r	eplacement		ition W75 Addenda	N/A Code Case(s
(c) ASME	Code Section XI ap	plicable for Inserv	ice Inspec	tion:	<u>1989</u> Ed	N/A ition Addenda	N/A Code Case(s
(d) Applica	ble Edition of Secti	on XI Utilized for F	Repairs, M	odification,	or Replac	cements:	
<u>1989, N</u>	I/A 19 <u>N/A</u>		e Case(s)				
	Responsibilities _	FENOC					
. Identification	n of Components F	Repaired, Modified	, or Replac	cement 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	1E51	84	1E51D00 01	1985	Replacement	YES
Description	of Work: Replace r	rupture disc SN 99	09003-1 v	vith new run	ture disc	SN A10900001	L
	110111111111111111111111111111111111111	aptara area orrea	<u> </u>		1010 0100	0117110000001	· · · · · · · · · · · · · · · · · · ·
Test Conduc	cted: Hydrostatic	- 🔲 Pneumat	ic- 🗍 N	Nominal Ope	eratina Pi	ressure- 🕅 Oth	er- 🗌

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00
9. Remarks:
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 of the front of this form.
CERTIFICATE OF COMPLIANCE
I, Russ Matthys, 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 9-28-2008
Date 5-14-2007 Signed FENOC-PNPP Question OC Supervisor (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, CT. have
inspected the repair, modification or replacement described in this report on MAVI4 20 01 and state that to
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date 5/14, 20 67 Signed Thomas Start Commissions NB 9330 "N"I"A" Ohio Comm (National Board (include endorsements), and jurisdiction, and no.)

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1E51-146

NIS-	2/NR-1 OWNE	R'S REPOR quired by the Prov					ENTS
PNPP No. 9308			1510115 01 11				NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date <u>5-14-200</u>	7
	10 Center I	Road, Perry Ohio	44081			Sheet 1 of	1
2. Plant:		lear Power Plant (P Road, Perry, Ohio				Unit <u>1</u> 20017314 (Repair Org. P.O. N	
3. Work Per	formed By: <u>FIRSTE</u> 10 Co	NERGY Nuclear Op enter Road, Perry,			Туре (Code Symbol Stam Authorization No Expiration Date	. 33
4. Identificat	ion of System:	Reactor Core Iso	olation Cod	oling Systen	n E51		· .
	able Construction Co <u>r 1975</u> Addenda	NAME/SECT	TON/DIVISIO	N/CLASS			
	ruction Code used for						N/A
(d) Applic 1989,	ECode Section XI aparts able Edition of Section N/A 19 N/A Responsibilities	on XI Utilized for F Addenda <u>N/A</u> 	Repairs, Mo Case(s)	_	<u>1989</u> Ed or Replac	N/A Addenda N/A Addenda cements:	Code Case(s) N/A Code Case(s)
	on of Components F						
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	1E51	84	1E51C00 03	1985	Replacement	YES
	of Work: Replace						
8. Test Cond Pressure	•	Pneumat st Temperature 10		Nominal Opelegrees F	•	ressure- 🛛 Oth Case(s)N/	er- [] A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS O	R REPLACEMENTS (Back)
9. Remarks:	
Note: Attach all applicable Manufacturer's Data Reports. Supplemental drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) in report is included on each sheet, and (3) each sheet is numbered the front of this form.	formation in items 1 through 6 of this
CERTIFICATE OF COMPLIANCE	
I, Russ Matthys, certify that to the best of my knowledge and belie correct and the repair, modification or replacement of the items described ab Code and to the National Board Inspection Code "NR" rules.	of the statements made in this report are ove conforms to Section XI of the ASME
National Board Certificate of Authorization No33 to use the "	NR stamp expires 9-28-2008
Date 5-14-2007 Signed FENOC-PNPP (name of repair organization) (authority)	OC Supervisor (title)
CERTIFICATE OF INSPECTION/INSERVICE I	NSPECTION
I, Jacob C. Scholl holding a valid commission issue	d by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the juris	diction of OHIO
and employed by HSB CT. of	Hartford, CT. have
inspected the repair, modification or replacement described in this report on	5-14 , 20 <u>07</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" I	ules.
By signing this certificate, neither the undersigned nor my employer makes a	ny warranty, expressed or implied,
concerning the work described in this report. Furthermore, neither the unders	igned nor my employer shall be liable in
any manner for any personal injury, property damage or loss of any kind arisi	ng from or connected with this inspection.
Date 5-14, 20 07 Signed Jarol C. Scholl Commission (inspector)	(National Board (include endorsements), and jurisdiction, and no.)

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1m51-028

	NIS-2						REPLACEM	ENTS
PI	NPP No. 9308 F		quired by the Prov	isions of th	ne ASME Ce	ode Secti	on XI 	NQI-1741
1.	Owner:	FIRS	TENERGY CORP.				Date 5-8-07	
	_		Road, Perry, Ohio	44081			Sheet 1 of	1
!								
2.	Plant: _		lear Power Plant (F					
	_	10 Center I	Road, Perry, Ohio 4	14081			20015351 (Repair Org. P.O. I	
_							-	
3.	Work Perfo	ormed By: _FIRSTE					Type Code Syml	, —
	:		enter Road, Perry,	<u>Onio 4406</u>	<u>) 1</u>		Authorization No Expiration Date	
4	Identificatio	n of Cuntom:	Combustible Co.	a Missing (Custom 1NA		Expiration Bate	0 10 00
		n of System:			_		<u> </u>	
5.	(a) Applicat	ole Construction Co	ode: ASME S NAME/SECT			2	<u>,1974</u> Editi	on
,	Winter	1975 Adden	da Code Case(s) <u>N</u>	1272, N-242	, N-275,	1644-5, N-413	
	(b) Constru	ection Code used for	or repairs, modifica	itions, or r	eplacement		ition W75 Addenda	N/A Code Case(s)
	(c) ASME	Code Section XI ap	oplicable for Inservi	ice Inspec	tion:	1989	N/A	N/A
	(d) Applica	ble Edition of Secti	on VIII William for F	Popoire M	adification (ition Addenda	Code Case(s)
	19 1989			lendaN/A	Junicanori, i	л керіас	ements.	
		Responsibilities	Code	e Case(s)				
6.	, ,	n of Components F		or Replac	cement Con	nponents		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board	Other ID.	Year Built	Repair, Replacement,	ASME Code
+	Dining	Pullman Power	1M51	No. 106	1M51F00	1985	or Modification	Stamped
	Piping System	Pulman Fower	TIVIST	100	10B	1903	Replacement	Yes
r								
-								
L 7	Description	of Work: Re	placed 36 honnet r	nute heat t	race 506C	size 5/8-	11	<u> </u>
	Description	or workRe	piaced 30 bottnet i	iuis jieat t	race souc	3126 0/0-		
8.	Test Conduc	cted: Hydrostatic	- 🗌 Pneumati	ic- 🗌 🛮 1	lominal Ope	erating Pi	ressure- Oth	er- 🗌
	Pressure <u>N/</u>	<u>'A</u> psi Tes	st Temperature N/	<u>'A</u> c	legrees F	Code	Case(s) <u>N/A</u>	

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NPP No. 9308 Rev. 9/11/00 NQI-1741
. Remarks: VT-2 not required Interpretation XI-1-95-52
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, Russ Matthys, 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 9-28-2008 Date 5-8-2007 Signed FENOC-PNPP Question (gathorized representative) QC Supervisor (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
1, <u>Jacob C. Scholl</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 CT. have
inspected the repair, modification or replacement described in this report on 5-14, 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 arising from or connected with this inspection. Ohio Comm "432" Date 5-14 , 20 07 Signed Jacob C Jobb Commissions NB 7920 "N"!"A""B" (Inspector) (National Board (include endorsements), and jurisdiction, and no.)
(inspector) (National Board (include endorsements), and jurisdiction, and no.)

.

1N22-D65 Py 1972

	NIS-	2/NR-1 OWNE	ER'S REPOR					ENTS
PI	NPP No. 9308	Rev. 9/11/00	——————					NQI-1741
1	. Owner:	FIRS'	TENERGY CORP.				Date 5-7	' -07
•			Road, Perry, Ohio	44081			Sheet 1 of	
	-	70 00	1900, 7 0, 1 0					<u>-</u>
2.	Plant:	Perry Nuc	lear Power Plant (F	PNPP)			Unit 1	
	-	10 Center I	Road, Perry, Ohio	44081			200173855	
	_						(Repair Org. P.O. I	Vo., etc.)
3.	Work Per	formed By: FIRSTE	NERGY Nuclear Op	erating Cor	ngany PNPP	Type (Code Symbol Stam	np NR
		-	enter Road, Perry,			,	Authorization No	
							Expiration Date	
	13 12 1		Maia Chanas Lina		-W			
4.	identificat	ion of System:	Main Steam Line	and Misc	<u>elianeous L</u>	<u>Irain Line</u>	s 1N22	
5.	(a) Applica	able Construction Co	ode: ASME NAME/SECT	Section III	Class 1 NB		,1974 Editi	on
	Winte	r 1975 Adden			N-272	& 1644 ₋ r	5	
		ruction Code used f	`					N/A
	(5) 00		o, ropano, moamoc	a, or .	оргаооттогн		ition Addenda	Code Case(s)
	(c) ASME	Code Section XI ap	pplicable for Inserv	ice Inspec	tion:	1989 Ed	N/A ition Addenda	N/A Code Case(s)
	(d) Applic	able Edition of Secti	on XI Utilized for F	Repairs, Mo	odification, o			0003 0030(0)
		, N/A 19 N/A			,	•		
		Responsibilities F	Code	e Case(s)				
6		on of Components F				nonents		
Γ		- ₁	· · · · · · · · · · · · · · · · · · ·	Nat.		·	Repair,	ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other ID.	Year Built	Replacement,	Code
\mid	Dining	Dullman Dawer	1N22	No.	100100	1985	or Modification	Stamped
	Piping System	Pullman Power	11422	112	1B21F00 16	1900	Replacement	YES
Γ								
t								
\mid				<u> </u>	<u> </u>			
L								
					į			
- 7.	Description	of Work: rep	laced gate w/new	(SN07X21	6-2)			
3.	Test Cond	ucted: Hydrostatic	- Pneumat	ic- 🗍 N	Nominal Op	erating P	ressure- 🛛 Oth	er- []
		•	st Temperature 14		legrees F	Ŭ	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
Remarks: Valve installed by Pullman Power and documented on the N-5 for the N22 system
PMT completed per order 200172372.
No composite /etemping performed due to the interface controls of PA 2270 being in effect and jurisdictional
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.
I, Russ Matthys, 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 September, 2008 Date 5-7-2007 Signed FENOC-PNPP
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I

1 N22-065 Py 2 of 2

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

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

Not to Exceed One Day's Production

. Manufactured and certified by						
		(name a	nd address of NPT Cert	tificate Holder)		
. Manufactured for First Energy	Corp/Accounts Payable/F		Johnstown, PA 1			···
Perry Mair Location of installation	n Warehouse/Perry Nucle	ar Power Plar	nt/ 10 Center Roa		081	
•	E SA216, GR. WCC	N/A	(name and address)	N/A	2007	,
. Type	(mat1 spec. no.) 1974	(tensile su Winter, 19	-	(CRN)	N/A	(year built)
ASME Code, Section III, Division 1:	(e dition)	laddeno	la date)	(class)	 - - ₁	Code Case no)
Fabricated in accordance with Const.	Spec. (Div. 2 only)	N/A	Revision	N/A	Date	N/A
Remarks: GATE FOR 3" 1500# FW	/ Gate Valve					
				·· · · · · · · · · · · · · · · · · · ·		
The material meets ASME Section II						
Nom. thickness (in.) N/A Mi	in. design thickness (in.)	Per #4 [Dia.ID (ft & in.) _	N/A Ler	ngth overall (ft 8	(in.) N/A
When applicable, Certificate Holders'	Data Reports are attached	I for each item	of this report:			
Part or Appurtenance	National Board No.	1 1	Part or Appur			ional
Serial Number	in Numerical Order		Serial Num			rd No. rical Order
		11		1	W Number	illar Otaci
07X216-1	N/A		•	}		
07/216.2	N/A	- 1	i)			
07/216 2	N/A)			
(3)			*)			
(4)		[129)			
(5)		(30)			
(6)		(31)			
(7)		(132)			
(8)		(33)			
(9)		(34	}			
(10)		(35)			
(11)		(36)			
(12)		(37)			
(13)		(38)			
(14)		(39)			
(15)		(40)		· · · · · · · · · · · · · · · · · · ·	
(16)		(41	l 			
(17)		(42)			
(18)		(43)	L	~— ~— -	
(19)		(44)			
(20))			
(21)		4 1)			
(22)		1 1		1		
(23)		3 1		I .		
(· · · · · · · · · - · - · · · · ·				•		
1 (24)						
(24)		15.0		J		

(11/05)

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

FORM N-2 (Back — Pg. 2 of _____)

07X216-3

07X216-1

Certificate Holder's Serial Nos. through CERTIFICATION OF DESIGN N/A N/A N/A P.E. State Design specifications certified by _ Reg. no. (when applicable) N/A N/A N/A P.E. State Design report* certified by _ Reg. no. when applicable) 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. N-1563 11-26-09 NPT Certificate of Authorization No. Expires Flowserve Corporation Name Signed : (NPT Certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSB CT _ have inspected these items described in this Data Report on 3/29/67of Hartford, CT best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. Date 3/28/07 Signed 1 Commissions

6 to 189 200-EENI

	NIS-2		R'S REPOR	_				MENTS
PNPP	No. 9308 F	Rev. 9/11/00		1810018 01 0	—————			NQI-1741
1. Ov	wner:	FIRS	TENERGY CORP.				Date5	5-7-07
		10 Center F	Road, Perry, Ohio	44081			Sheet 1	of <u>2</u>
				~··\				
2. Pla	ant:		lear Power Plant (F					
		10 Center F	Road, Perry, Ohio 4	14081			200011552 (Repair Org. P.C). No., etc.)
3. W	ork Perfo	rmed Bv: FIRSTE	NERGY Nuclear Op	eratina Cor	npany PNPP	Type (Code Symbol Sta	amp NR
		-	enter Road, Perry,			,,	Authorization N	
							Expiration Date	
4 Ide	entificatio	n of System:	Main Steam Line	e and Misc	ellaneous E	rain Line	s 1N22	
			ode: ASME					lition
J. (a)	Аррисас	ne construction co	NAME/SECT	ION/DIVISIO	ON/CLASS		,1 314 LC	MOH
	Winter	<u>1975</u> Adden	da Code Case(s) _	N-272	<u> 8 1644-5</u>	5	
(b)	Constru	iction Code used fo	or repairs, modifica	ations, or r	eplacement		ition W/75 Addenda	N/A Code Case(s)
(c)) ASME (Code Section XI ap	plicable for Inserv	ice Inspec	tion:	1989 Edi	N/A ition Addenda	N/A Code Case(s)
(d)	Applical	ole Edition of Secti	on XI Utilized for F	Repairs, Mo	odification,	or Replac	ements:	
	<u>1989</u> ,	<u>N/A</u> 19 <u>N/A</u>	Addenda N/A	e Case(s)				
(e)	Design	Responsibilities <u>Fl</u>						
6. Ide	ntification	of Components F	Repaired, Modified,	, or Replac	cement Con	nponents		
	ame of mponent	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	
Pipii Syst	_	Pullman Power	1N22	112	1B21F00 - 19	1985	Replacement	YES
					}			
7 Des	scription (of Work: <u>rep</u>	laced gate w/new	(SN07X21	16-3)		<u> </u>	
7. DCs	scription	or worktep	lacea gate willew	TOMOTYE	0-01			
8. Tes	t Conduc	cted: Hydrostatic	- Pneumat	ic- 🔲 1	Nominal Op	erating Pi	ressure- 🛛 O	ther-
Pre	ssure <u>10</u>	132 psi Tes	st Temperature 14	12 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
Remarks: Valve installed by Pullman Power and documented on the N-5 for the N22 system
PMT completed per order 200168008.
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, Russ Matthys, 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 September, 2008
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION I,

:

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

Flowserve Corporation 1900 S. Saunders St. Raleigh, NC	of 2
2. Manufactured for	
Perry Main Warehouse/Perry Nuclear Power Plant/ 10 Center Road, Perry OH 44081 Same Sazia, GR. WCC	
1	
81180 R/L ASME SA216, GR. WCC N/A 1007 10	
(Javaning no.) (Imart. spec. no.) (Itensite strength) (CAR) (CAR) (Lass) (Code Case.)	
Code Case	lt)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date 7. Remarks: GATE FOR 3" 1500# FW Gate Valve The material meets ASME Section II, 1974 Edition, Winter 1975 Addenda through 1983 Edition, Summer 1985 Addenda 8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A tength overall (ft & in.) = 9. When applicable, Certificate Holders' Data Reports are attached for each item of this report: Part or Appurtenance Serial Number National Board No. in Numerical Order Part or Appurtenance Serial Number Reports Re	no.)
The material meets ASME Section II, 1974 Edition, Winter 1975 Addenda through 1983 Edition, Summer 1985 Addenda	/A
The material meets ASME Section II, 1974 Edition, Winter 1975 Addenda through 1983 Edition, Summer 1985 Addenda 8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.)	
B. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) 9. When applicable, Certificate Holders' Data Reports are attached for each item of this report: Part or Appurtenance Serial Number National Board No. in Numerical Order Part or Appurtenance Serial Number National Board No. in Numerical Order (1) 07X216-1 N/A (26) (27) (3) 07X216-2 N/A (28) (29) (4) (29) (30) (31) (5) (30) (31) (32) (6) (33) (34) (34) (9) (34) (35) (35)	
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report: Part or Appurtenance	
Part or Appurtenance Serial Number National Board No. in Numerical Order Serial Number Serial Number National Board No. in Numerical Order Serial Number Serial Number National Board No. in Numerical Order Serial Number S	N/A
Part or Appurtenance Board No. in Numerical Order Part or Appurtenance Board No. in Numerical Order	
Part or Appurtenance Board No. in Numerical Order Part or Appurtenance Board No. in Numerical Order	
(1) 07X216-1 N/A (26) (27) (27) (33) 07X216-3 N/A (29) (29) (30) (31) (32) (8) (33) (9) (35) (35) (35) (35)	
(1) (2) 07X216-2 N/A (3) 07X216-3 N/A (4) (29) (5) (30) (6) (31) (7) (32) (8) (33) (9) (34) (10) (35)	er
(1) (2) 07X216-2 N/A (3) 07X216-3 N/A (4) (29) (5) (30) (6) (31) (7) (32) (8) (33) (9) (34) (10) (35)	
(3) 07X216-3 N/A (28) (29) (30) (31) (32) (8) (9) (35) (35) (35)	
(4) (29) (29) (30) (6) (31) (32) (8) (33) (34) (35) (35)	
(5) (30) (31) (31) (32) (33) (9) (34) (35) (35)	
(6) (31) (32) (33) (34) (35) (35)	
(7) (32) (33) (34) (35) (35)	
(8) (33) (34) (35) (35)	
(9)	
(10)	
[11] [36]	
$(12) \qquad (37) \qquad (37)$	
(13) (39)	
(14) (39)	
(15) (40)	
(16) (41)	
(17)	
(18)	
(19) (44) (45)	
(21) (46) (47)	
(25) (50)	

__ °F. Hydro, test pressure _

(11/05)

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 81/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each cheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of _____)

07X216-3

07X216-1

Certificate Holder's Serial Nos. through CERTIFICATION OF DESIGN N/A N/A N/A Design specifications certified by _ P.E. State Reg. no. (when applicable) N/A N/A N/A P.E. State Design report* certified by _ Reg. no. 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. N-1563 11-26-09 NPT Certificate of Authorization No. Expires Flowserve Corporation Name Signed : (NPT Certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province NC and employed by ______HSB_CT_ _ have inspected these items described in this Data Report on 2/28/o7of Hartford, CT best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. Date 3/28/07 Signed -Commissions

1 N27-047 Pg 1 of 2

N	IS-2						REPLACEM	ENTS
PNPP No.	9308 F	As re Rev. 9/11/00	quired by the Prov	isions of th	ne ASME C	ode Secti	on XI	NQI-1741
1. Own	er:	FIRS	TENERGY CORP.				Date <u>5-8-07</u>	
	_	10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant	: _		ear Power Plant (F				Unit <u>†</u>	
		10 Center F	Road, Perry, Ohio	14081			200168166 (Repair Org. P.O. N	lo., etc.)
3. Work	Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Ope	erating Con	npany PNPP	Туре (Code Symbol Starr	p <u>NR</u>
		10 Ce	enter Road, Perry,	Ohio 4408	<u>11</u>		Authorization No	33
			•		•		Expiration Date	9-28-08
4. Identi	ficatio	n of System: 1N2	7 Feedwater and F	eedwater	Leakage Co	ontrol Sys	tem	
5. (a) Ap	plicat	ele Construction Co	ode: <u>ASME Section</u> NAME/SECT	n III - Clas	s 1 NB		19 <u>74</u> Editi	on
<u>v</u>	/inter	19 <u>75</u> /		Case(s) <u>N</u>		·		
(b) C	onstru	ction Code used for	or repairs, modifica	ations, or r	eplacement		W/75 tion Addenda	N/A Code Case(s)
(c) A	SME (Code Section XI ap	plicable for Inservi	ice Inspec	tion:	1989 Edi	N/A Addenda	N/A Code Case(s)
(d) A	oplicat	ole Edition of Secti	on XI Utilized for R	Repairs, Mo	odification, o	or Replac	ements:	
		<u>N/A</u> 19 <u>N/A</u>	Code	e Case(s)				
, ,	•	Responsibilities <u>FI</u>		or Doplos	amont Con			
F		of Components F		,	T	· 	Donnie	ACME
Nam Compo		Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Valve		Rockwell International Corp.	PZ42	663	!N27 F559B	1981	Replacement	YES
	_							
7. Descri		of Work: Remove	tect connection fro	m valve fo	r inspection	and rein	stall using filler ma	terial
8. Test C		ted: Hydrostatic	- Pneumati	ic- 🗆 N	lominal Op	erating Pr	essure- 🖾 Othe	er- 🔲
Pressi		•	st Temperature 15	_	legrees F	_	Case(s) <u>N416-2</u>	· .

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks: NONE
J. Nomarks. Home
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, Russ Matthys, 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 , 2008
Date 5-8-2007 Signed FENOC-PNPP Rus Manual QC Supervisor (name of repair organization) (authorized represervative) (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 HARTFORD STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification or replacement described in this report on MAY 12, 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 arising from or connected with this inspection. Date 5/12, 20 07 Signed Thomas John Commissions NB 9330 "N"I"A" Ohio Comm. (Inspector) (National Board (include endorsements), and jurisdiction, and no.)

Contract of the Contract of th FER FORM NEV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR As Required by the Provisions of the ASPAE Code, Section III, Div. 1 1. Manufactured by Rockwell International Corp., 1900 S. Saunders, St., Raleigh, NC 27603
(Name and Address of N Certificale Holder) 2 Manufactured for Cleveland Electric III. Conney, P.O. Box 500, Cleveland, Ohio 44101

Name and Address of European Comme) of Installation Perry Huclear Poper Plant, Units 1 5 2, North (Name and Address) Valve (a) Model No., (b) N Certificate Holder's (c) Canadian - IN North (g) Year Suries No. Serial Accidings (e) Class Bd. No. ≱انB or Type No. No. D-81-24421-01 Rev. B 663 1981 (1) LIGHT (3) 13) (4) (5) (5) (7) (3) (3) (10) Controlled Closure Check Valve

Birel description of service for which equipmed the No. 3810415-117 1510 420 6. Design Conditions Pressure Retaining Pieces Mark No. Material Spec. No. Manufacturer Bemarks (a) Castings. 1810415 Rockwell Int'l (Metal Casting Di (b) Forgings 116447 SA. 105 Charles V Jarson Cover 22052B SA 105 Cann & Saul Steel Disk Company 36226 SA 638 Gr. 660 TZ Casket Retainer 126176 SA 105 SA 105 Test Fitting 116792 Charles E. Larson Supplemental sheets in form of lists, shetches or drawings may be used provided (1) size is 8.107 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 nur is recorded at top of this form.

	T	·	
Mark No.	Material Spec. No.	Minufactures	Remarks
Bolting			
N/A		<u> </u>	
		<u> </u>	
		ļ	
	<u> </u>	<u> </u>	<u></u>
··		[
(d) Other Paris			
1.23469	5A 106 Cr. B	Capital Pipe & Stee	l Equalizer
	4	Products	
	SA IDE OF R LEE	Capital Pipe A Steel Products	_Drain_Nipple
		The state of the s	
	10		
			
terstanie vest 3375 mil	. Disk Differential test pressure, 2250		
			
ruction of the ASME Conner 1975 Marie Rockwell Inte	i made in this report are correct and for Nuclear Power Plant Compo Code Case No	nonta Section III, Div. 1. Edition Date 12-30-	1974 81 26 12/30/81
Aruction of the ASME Concerds <u>Vinter 1975</u> (Bate) Red <u>Rockvell Inter</u> (N Certificate Mole	de for Nuclear Power Plant Compo Code Case NoR/A ernational Corp	nents, Section III, Div. 1, Edition Date 12-30- Date 12-30- Hanager, Quality Assu	1974 81 26 12/30/81
truction of the ASME Concerds <u>Vinter 1975</u> Clare) Ed <u>Rockvell Inter</u> (N Certificate Mole	de for Nuclear Power Plant Compo Code Case No. R/A ernational Corp. by itation No. N=1562 to use	nents, Section III, Div. 1, Edition Date 12-30- Date 12-30- George Control of the Manager, Quality Assistant New Symbol of the Manager Symbol of the Man	on 1974
entruction of the ASME Colored Winter 1975 (Date) Ed <u>Rockwell Inter</u> IN Certificate of Author	de for Nuclear Power Plant Compo Code Case No. N/A ernational Corp. by institution No. No. 1562 to use	nents, Section III, Div. 1, Editi Date 12-30: Carolic Section III, Div. 1, Editi Date 12-30: Gradie Section III, Div. 1, Editi Carolic Section III, Div. 1, Edition III, Edit	1974 181 126 12/30/91 Trance 11/26/82
Arruction of the ASME Covered Winter 1975 Ed Rockvell Inter 19 Control of Control of Control of Author Control of Author Control of Author Control of Author Control of Control	centification of Rockwill International C	Date	1974 181 126 12/30/61 173000 11/26/82
truction of the ASME Corends Winter 1975 Basis Ed Rockvell Inter 18 Certificate toll ASME Certificate of Author pa information on file at ss analysis report (Class) of	cernational Corp. by Cernational Corp. by Cernation No. No. No. 1562 to use CERTIFICATION OF Rockwell International Corp.)	Date	1974 181 126 12/30/61 173000 11/26/82
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25.8

1N27-048

	NIS-2		ER'S REPOR				REPLACEM	ENTS
Р	NPP No. 9308 F							NQI-1741
1	. Owner:	FIRS	TENERGY CORP.				Date <u>5-12-07</u>	
		10 Center	Road, Perry, Ohio	44081			Sheet 1 of	1
2	. Plant:	Perry Nuc	lear Power Plant (I	PNPP)			Unit 1	
	-		Road, Perry, Ohio				200168165 (Repair Org. P.O. I	Vo., etc.)
3	. Work Perfo	rmed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP	Y Type (Code Symbol Stam	ıp <u>NR</u>
		10 C	enter Road, Perry,	Ohio 4408	<u>31</u>		Authorization No	33
							Expiration Date	9-28-08
4	Identificatio	n of System: 1N2	7 Feedwater and F	- Feedwater	Leakage C	ontrol Svs	stem	
			ode: ASME Sectio	n III - Clas	s 1 NB		,19 <u>74</u> Editi	on
	NA 11 - 4	40. 75	NAME/SECT					
		19 <u>75</u>	Addenda Code or repairs, modifica	Case(s) <u>N</u>		te: 1074	\N/75	N/A
	(D) Consid	iction Code asea t	or repairs, modifica	auoris, or r	еріасеттен		ition Addenda	N/A Code Case(s)
	(c) ASME	Code Section XI ap	oplicable for Inserv	ice Inspec	tion:		N/A Addenda	N/A Code Case(s)
			ion XI Utilized for F Addenda <u>N/A</u>	•	odification,	or Replac	ements:	
			Cod	e Case(s)				
_		Responsibilities E		Dl				
b.	identification	Tor Components F	Repaired, Modified	· 	cement Cor	nponents		1 1000
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
	Valve	Rockwell International Corp.	PZ83	662	!N27 F559A	1981	Replacement	YES
7.	Description	of Work: Remove	tect connection fro	om valve fo	or inspection	n and rein	stall using 1 ¾ inc	h round
	Stock HT 14	512						
8.	Test Conduc	cted: Hydrostatic	- Pneumat	tic- 🔲 🗈 1	Nominal Op	erating P	ressure- 🛭 Oth	er- 🗌
	Pressure 10	<u>)41</u> psi Te	st Temperature 15	56c	legrees F	Code	Case(s) <u>N416-2</u>	

NPP No. 9308 Rev. 9/11/00	NQI-17
Remarks: NONE	
	PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN
FFECT AND JURISDICTIONA	AL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.
drawings may be used, p	nufacturer's Data Reports. Supplemental sheets such as lists, sketches, or provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this h sheet, and (3) each sheet is numbered and the number of sheets is recorded .
	CERTIFICATE OF COMPLIANCE
I, Russ Matthys , certicorrect and the repair, modification Code and to the National Board	ify that to the best of my knowledge and belief the statements made in this report are tion or replacement of the items described above conforms to Section XI of the ASME. Inspection Code "NR" rules.
National Board Certificate of Aut	
Date <u>5-12-2007</u> Signed	FENOC-PNPP (u.s. Mattheway) QC Supervisor (name of repair organization) (authorized representative) (title)
CE	ERTIFICATE 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 HARTFORD S	STEAM BOILER CT. of HARTFORD, CT have
inspected the repair, modification	n or replacement described in this report on MAYI4, 20 0 and state that to
the best of my knowledge and be	elief, this repair, modification or replacement has been completed in accordance with
Section XI of the ASME Code an	nd the National Board Inspection Code "NR" rules.
By signing this certificate, neithe	er the undersigned nor my employer makes any warranty, expressed or implied,
concerning the work described in	n this report. Furthermore, neither the undersigned nor my employer shall be liable in
any manner for any personal init	ury, property damage or loss of any kind arising from or connected with this inspection.
,	

1P11-009 Ps 1 of 2

PNPP NO. 9300	Rev. 9/11/00	equired by the Prov					NQI-1741
1. Owner:	FIRS	TENERGY CORP.				Date 5-2-2007	
-		Road, Perry Ohio	44081			Sheet 1 of	
2. Plant: _	Perry Nuc	lear Power Plant (F	PNPP)			Unit 1	
_	10 Center f	Road, Perry, Ohio	44081			20017385 (Repair Org. P.O. I	
3. Work Perf	formed By: <u>FIRSTE</u>	NERGY Nuclear Op	erating Cor	npany PNPP	Туре	Code Symbol Stam	ıp <u>NR</u>
	10 C	enter Road, Perry,	Ohio 4408	<u>81</u>		Authorization No	o. <u>33</u>
					•	Expiration Date	9-28-08
1 Identificăti	on of System:	Condensate Tra	nsfer a <u>nd</u>	Storage Sys	item P11	ı <u></u>	
	able Construction Co		Section III	Class 2 - N			ion
Winter	r 1975 Addenda				413		
	ruction Code used for					14175	N/A
(b) Const	delien code asca r	or repairs, modifice	ations, or i	epiacement		W75 ition Addenda	Code Case(
• ,	Code Section XI ap	·		·	Edi 1989	ition Addenda	
(c) ASME		oplicable for Inservi	ice Inspec	tion:	1989 Edi	N/A N/A Addenda	Code Case(N/A
(c) ASME	Code Section XI ap	oplicable for Inservi ion XI Utilized for R Addenda <u>N/A</u>	ice Inspec Repairs, Mo	tion:	1989 Edi	N/A N/A Addenda	Code Case
(c) ASME (d) Applica	Code Section XI ap	oplicable for Inservi ion XI Utilized for R Addenda <u>N/A</u>	ice Inspec Repairs, Mo	tion:	1989 Edi	N/A N/A Addenda	Code Case
(c) ASME (d) Applica	Code Section XI ap able Edition of Secti N/A 19 N/A	oplicable for Inservi ion XI Utilized for R Addenda <u>N/A</u> Code FENOC	ice Inspec Repairs, Mo Case(s)	tion: odification, o	Edi 1989 Edi or Replac	N/A N/A Addenda	Code Case
(c) ASME (d) Applica	Code Section XI apable Edition of Section N/A 19 N/A Responsibilities _ on of Components F	oplicable for Inservi ion XI Utilized for R Addenda <u>N/A</u> Code FENOC	ice Inspec Repairs, Mo Case(s)	tion: odification, o	Edi 1989 Edi or Replac	N/A N/A Addenda	Code Case
(c) ASME (d) Applica 1989, I (e) Design Identification	Code Section XI apable Edition of Section N/A 19 N/A Responsibilities _ on of Components F	oplicable for Inservition XI Utilized for R Addenda N/A FENOC Repaired, Modified, Manufacturer	ice Inspec Repairs, Mo e Case(s) , or Replac Nat. Board	odification, of the comment Co	Edi 1989 Edi or Replace nponents	N/A N/A N/A None Addenda None A	Code Case N/A Code Case ASME Code
(c) ASME (d) Applica 1989, I (e) Design Identification Name of Component Piping	Code Section XI apable Edition of Section N/A 19 N/	ion XI Utilized for R Addenda N/A Code FENOC Repaired, Modified, Manufacturer Serial No.	Repairs, Mo e Case(s) or Replac Nat. Board No	cement Com Other ID.	1989 Edi Dr Replace Enponents Year Built	N/A N/A N/A Non N/A Non N/A Non	ASME Code Stamped
(c) ASME (d) Applica 1989, I (e) Design Identification Name of Component Piping	Code Section XI apable Edition of Section N/A 19 N/	ion XI Utilized for R Addenda N/A Code FENOC Repaired, Modified, Manufacturer Serial No.	Repairs, Mo e Case(s) or Replac Nat. Board No	cement Com Other ID.	1989 Edi Dr Replace Enponents Year Built	N/A N/A N/A Non N/A Non N/A Non	ASME Code Stamped
(c) ASME (d) Applica 1989, I (e) Design Identification Name of Component Piping	Code Section XI apable Edition of Section N/A 19 N/	ion XI Utilized for R Addenda N/A Code FENOC Repaired, Modified, Manufacturer Serial No.	Repairs, Mo e Case(s) or Replac Nat. Board No	cement Com Other ID.	1989 Edi Dr Replace Enponents Year Built	N/A N/A N/A Non N/A Non N/A Non	Code Case N/A Code Case ASME Code Stamped
(c) ASME (d) Applica 1989, I (e) Design Identification Name of Component Piping	Code Section XI apable Edition of Section N/A 19 N/	ion XI Utilized for R Addenda N/A Code FENOC Repaired, Modified, Manufacturer Serial No.	Repairs, Mo e Case(s) or Replac Nat. Board No	cement Com Other ID.	1989 Edi Dr Replace Enponents Year Built	N/A N/A N/A Non N/A Non N/A Non	Code Case N/A Code Case ASME Code Stamped
(c) ASME (d) Applica 1989, I (e) Design Identification Name of Component Piping System	Code Section XI apable Edition of Section N/A 19 N/	pplicable for Inservition XI Utilized for R Addenda N/A Code FENOC Repaired, Modified, Manufacturer Serial No. 1P11	ce Inspectage Repairs, Mo	odification, of the cement Company Other ID.	1989 Edi Teplace Tepla	Repair, Replacement Replacement	ASME Code Stamped YES

NIS-2/1 PNPP No. 9308 R	NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) Rev 9/11/00 NQI-1741
9. Remarks:	Relest (VT-2) performed by Order 200173853
drawing report is	all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or is may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this is 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	s Matthys, certify that to the best of my knowledge and belief the statements made in this report are he repair, modification or replacement of the items described above conforms to Section XI of the ASME the National Board Inspection Code "NR" rules.
	rd Certificate of Authorization No. 33 to use the "NR stamp expires 9-28-2008
Date <u>5-2-200</u>	7 Signed FENOC-PNPP (Los Matt) OC Supervisor (name of repair organization) (authorized representative) (title)
	CENTRAL OF WORLD AND PROTON
Thomas G.	CERTIFICATE OF INSPECTION/INSERVICE INSPECTION Laps holding a valid commission issued by The National Board of Boiler and
	issel Inspectors and certificate of competency issued by the jurisdiction of OHIO
I.	d by HSB CT. of Hartford, CT. have
ì	repair, modification or replacement described in this report on May 3, 20 o 7 and state that to
T .	y knowledge and belief, this repair, modification or replacement has been completed in accordance with
i '	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,
1	e work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in
_	or any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date _ 5 3	_, 20 <u>D7</u> Signed
(

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1 P11-009 Px 2 of 2

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>

1. Manufactured and	certified by: Weir Valv	ves and Controls USA Inc., 28 (name and address of	<u>5 Canal St., Salem, MA_0</u> N Certificate Holder)	1970
		•	•	
2. Manufactured for_	First Energy Corporation, 10 C	enter Rd., P.O. Box 97, North	Perry, OH 44081	
	•	(name and address	of Purchaser)	
3. Location of installa	ation Perry Nuclear Power Plan			·
		(name and a	ddress)	
4. Model No., Series 1	No., or Type TC8V	Drawing 53236-A	Rev. 02	CRN N/A
		<u> </u>		
5. ASME Code, Section	on III, Division 1: 1974 (edition)	Winter 1975 (addenda date)	2 (class)	1635-1 (Code Case no.)
			, ,	,,
6. Pump or ValveV	'alve Nominal inlet size	(in.) Outlet size (in.)	<u> 12</u>	
		("".)	·· <i>)</i>	
7. Material: Body _3	SA351-CF8M Bonne	SA240-316	Disk SA351-CF8M	Bolting <u>see remarks</u>
(a)	(b)	(c)	(d)	(e)
Cert.	Nat'l	Body	Bonnet	Disk
Holder's	Board	Serial	Serial	Serial
Serial No.	No.	No.	No.	No.
1-53236-A	N/A	HT. #:06262	HT. #:0AD7	HT. #: 06251
		S/N. #: Y578	SN. #:_1	S/N. #: Y579
				-
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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 <u>2</u>)

Certificate Holder's Serial No. 1-53236-A

8. Design conditions Body 275 psi 100 °F or valve pressure class 150 (1) . Disc 160 psi 220 (pressure) (lemperature)
9. Cold working pressure 275 psi at 100°F
10. Hydrostatic test 425 psi. Disk differential test pressure 180 psi
11. Remarks:HEX CAP SCREWS SA193 GR B8M CL1, HT#; 151788 TR#: 136C
CERTIFICATION OF DESIGN
Design specification certified by <u>Richard D. Stadel</u> P.E. State <u>Michigan</u> Reg. No. <u>6201027244</u> (when applicable)
Design report certified by N/A P.E. State N/A Reg. no. N/A (when applicable)
(mish appreados)
CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2606 Expires 6-13-07 Date 3/30/07 Name WEIR VALVES & CONTROLS USA INC. Signed (authorized representative)
CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 3/30/77 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1. By signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising/from or connected with this inspection. Date 3/30/04 Signed Commission MA/1651 4, B, N, T (Authorized Inspector) (Natt. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

1911-010

NIS-2	NR-1 OWNE As re	ER'S REPOR quired by the Prov					ENTS		
PNPP No. 9308 R							NQI-1741		
1. Owner:	FIRS"	TENERGY CORP.				Date <u>5-11-200</u>	7		
	10 Center F	Road, Perry Ohio	44081			Sheet 1 of	1		
2. Plant: _		ear Power Plant (F				Unit <u>1</u>			
	10 Center F	Road, Perry, Ohio 4	14081			20025973 (Repair Org. P.O. I			
3 Work Porto	rmed By: <u>FIRSTE</u>	NERGY Nuclear On	oratina Con	anany DNIDD	Type (`nda Swmhol Stam	nn NR		
3. WORKT CITO	•	enter Road, Perry,			, , , , , ,	Authorization No			
		,				Expiration Date			
4 Identification	n of System:	Condonanto Tra	nefor and	Storago Suc	tom D11				
	-								
5. (a) Applicab	le Construction Co	ode: ASME S NAME/SECT	Section III ION/DIVISIO	Class 2 - N N/CLASS	С	<u>,1974</u> Editi	on		
Winter	1975 Addenda	Code Case(s) <u>164</u>	4-5, N-272	, N-275, N-	413				
(b) Constru	ction Code used fo	or repairs, modifica	ations, or r	eplacement		tion W75 Addenda	N/A Code Case(s)		
(c) ASME (Pode Section XI ap	plicable for Inservi	ice Inspec	tion:	1989	N/A	<u>N/A</u>		
(d) Applicat	ole Edition of Secti	on VI Utilized for E	Popoiro M	adification (tion Addenda	Code Case(s)		
. ,	/A 19 N/A		•	ouncation, c	n izebiac	ements.			
	Responsibilities _	Code	e Case(s)						
	n of Components F		or Replac	ement Corr	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									
			-			-			
7 Description	of Work: Install ne	wyslys wafer disk	/nin UT # I	74944/1507	O also	installed new mou	oting stude		
	and nuts HT 71468		/ <u>pii//ii # i</u>	<u> </u>	3 - aisu	installed new mod	mind sings		
8. Test Conduc	cted: Hydrostatic	- 🗌 Pneumat	ic- 🔲 1	lominal Ope	erating Pr	essure- 🛛 Oth	er- 🗌		
Pressure 15	52 psi Tes	st Temperature 10	<u>)4 </u>	legrees F	Code	Case(s)N/	Α		

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) PNPP No. 9308 Rev. 9/11/00 NQI-1741
9. Remarks:
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, Russ Matthys 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 9-28-2008
Date 5-11-2007 Signed FENOC-PNPP (Cuss Manuel Of Supervisor (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION
I, Thomas G, Laps holding a valid commission issued by The National Board of Boiler and
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO
and employed by HSB CT. of Hartford, CT. have
inspected the repair, modification or replacement described in this report on MAY 11, 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 arising from or connected with this inspection. Date 511., 20 07. Signed Thermal Commissions NB 9330 "N"I"A" Ohio Comm (National Board (include endorsements), and jurisdiction, and no.)
and jorsulation, and no.y

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1943-018

NIS-2/NR-1 OWNE						ENTS
As re- PNPP No. 9308 Rev. 9/11/00	quired by the Provi	isions of tr	e ASME C	ode Secil	OU Y1	NQI-1741
1. Owner: FIRST	ENERGY CORP.				Date 8/3/05	
10 Center F	Road, Perry, Ohio	44081			Sheet 1 of	2
2. Plant: Perry Nucl	ear Power Plant (F	PNPP)			Unit <u>one</u>	
10 Center F	Road, Perry, Ohio 4	14081			01-12834-000 (Repair Org. P.O. N	lo., etc.)
3. Work Performed By: FIRSTEI 10 Ce	NERGY Nuclear Ope enter Road, Perry,				Type Code Symb	33
4. Identification of System: 1P43	Nuclear Closed C	Cooling				
5. (a) Applicable Construction Co	NAME/SECT				,19 <u>74</u> Editio	on
 (b) Construction Code used for (c) ASME Code Section XI ap (d) Applicable Edition of Section 19 89, N/A 19 N/A (e) Design Responsibilities FI 6. Identification of Components FI 	plicable for Inservi on XI Utilized for F Addenda <u>n/a</u> Cod RSTENERGY Nu	ice Inspec Repairs, Mo e Case(s) clear Opre	tion: odification, of rating Com	Edi 1989 Edi or Replac pany PNF	tion Addenda N/A tion Addenda ements:	n/a Code Case(s) n/a Code Case(s)
Name of Name of Component Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Valve Contromatics	84509-26-3	N/A	1P43 F355	1977	Replacement	Yes
7. Description of Work: Rebuilt va						
studs 7/8-9 four of HT code 81 8. Test Conducted: Hydrostatic Pressure N/A psi Test	_	1 🗍 1		erating Pr		er-

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS	(Back)
9. Remarks: Reference CR 03-06248 and CR 03-06252	
NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-237	0
BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECE	IVED.
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 throug report is included on each sheet, and (3) each sheet is numbered and the number of sheets the front of this form.	h 6 of this
CERTIFICATE OF COMPLIANCE	
I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this correct and the repair, modification or replacement of the items described above conforms to Section XI of Code and to the National Board Inspection Code "NR" rules.	report are the ASME
National Board Certificate of Authorization No. 33 to use the "NR stamp expires 26 Sept.	
Date Aug. 3 . 20 05 Signed FENOC-PNPP Med Jeni QC Te (name of repair organization) (authorized representative)	ich. Title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION	
I, Thomas G Laps, holding a valid commission issued by The National Board of	1
Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO	
and employed by HSB CT. of Hartford, Conn.	ſ
inspected the repair, modification or replacement described in this report on 5.7 20 5. and sta	į
the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance to the second sec	dance with
Section XI of the ASME Code and the National Board Inspection Code "NR" rules.	. 11 4
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or important to the control of the control]
concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall the any manner for any personal injury, property damage_or loss of any kind arising from or connected with this	
Date 915 , 20 05 Signed Thomas 9 Commissions NB 9330 "N" "1" "A" Ohio (National Board (include enand jurisdiction, and	Comm. dorsements),

1943-018 PAGE 2 OF Z

"CORRECTED REPORT"

S.O. NP84509, Item #26 P.O. P-1191-K, Item #RNN-12

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

. Manufactured	by Cont	tromatics Di	v., 222 l	Roberts S	St., E.	Hartford,	Ct. 061
Manufactured	or Clev	Name and Address of M /eland Elec. (Name and Address of Premy Nuc. Pw	Illum. (Co., Illu	minatin	g Bldg., E	Public S
, mandractor a	Dc	(Name and Address of Prepry Nuc. Pw	urchaser or Owne	m Unite 7	Cle	veland, Or	110 44]
					-oc inca	r raincov	<u> </u>
. Pump or Valv	_e _Butt	(Name and Address) cerfly Valve	Nominal	l Inlet Size	TO	Outlet Size	
(a) Mode	l No.,	(b) Manufacturers'	(c) Canadian				
· Series	No.	Serial	Registration	.(d) Drawir	ng	(f) Nat'l.	(g) Year
or Ty	pe	No.	. No.	No.	(e) Cla	ss Bd. No.	Built
(1) CW-25	66-BB	84509-26-3	N/A	2498-10-	-26A 2	N/A	1977
(3)							
(4)						· · · · · · · · · · · · · · · · · · ·	
(5)							
(6)		·. · · · · · · · · · · · · · · · · · ·	·				
(7)							
(8)							
(9)				····			
(10)							
Demi	neraliz	zed Water (A	ctive)				
				hich equipment w	as designed)		
		T		1			
Mark	INO.	Material Sp	ec. No.	Manu	ıfacturer 	Remar	
(a) Costings							·×s
				1	•	CORRECT	
						Line 8d	ION:
						Line 8d Add Ht	ION: : #2209
		DEVID				Line 8d	ION: : #2209
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(b) Fargings		V088	<u> </u>			Line 8d Add Ht	ION: : #2209

(1/76)

This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

⁽¹⁾ For manually operated valves only.

^{*} 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 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.

Mark No.	Material Spec. No.	Manufacturer	Remarks
In Robins			
(c) Bolting Studs	ASME-SA-193	IIBA Co. and Univ	ersal-Cyclops
		TDA CO. and Only	ersar-cycrops
Ht #G8983	Gr. B8	TDA Co. and Tours	- 9 T
Bolts	ASME-SA-193	IBA Co. and Jone	s & Laughlin
Ht #48238	Gr. B8		
Nuts	ASME-SA-194	IBA Co. and Alle	gheny-Ludlam
Ht #87047	Gr. 8 • 3044		
	Gr. 8 • JONE	k \	
<u> </u>	1,2	120	
	12 0	(v)	
(d) Cu	Twi oo		
(d) Other Parts			
Body(Plate)	ASME-\$4-5160 <	Nippon Kokan K.K	
Ht #2209	Gr. 70 Z	Fixkylyama Works	
Roll_#RL094-1		2/	
<u>Disc(Plate)</u>	ASME-SA 5226	Kaiser Steel	
Ht <u>#53204(2-1)</u>	Gr. 70 Og 3 G		
Retainer	ASME-SA-516	Stahlwerke Peine	-Salzgitter A
Ht #82914	Gr. 70		
Roll #7226-4			
132.15.31. 11. 12.20			
9. Hydrostatic test 425	psi.		
	CERTIFICATE OF CO	иPLIANCE	
1			
- I	s made in this report are correct an		107/
construction of the ASME Con	de for Nuclear Power Plant Compoi	//	
Addenda Winter 1974	+, Code Case No. N/A	Date	78
Signed _ Contromation	es Division hy.	Hotel Lalwanda	
(Manufacturer		Jschwanda, Asst.	0/8/25
Our ASME Certificate of Author	ization No. $\underline{N-885}$ to use	the N symbol e	expires
		(14) (145.0)	
	CERTIFICATION OF	DESIGN	
<u> </u>			
,	<u>Contromatics Di</u>	vision	
Stress analysis report (Class 1 o	only) on file at		
Design specifications certified b	y(1) <u>Hiram R. Repper</u>	<u>t</u>	
PE StatePaF	leg. No. <u>24298–E</u>		
Stress analysis certified by (1)			
PE State F	leg. No		:
			1
(1) Signature not required. List	name only.		
	CERTIFICATE OF SHOP I	NSPECTION	
	CENTIFICATE OF SHOP	1437 ECTION	
I, the undersigned, holding a vi	alid commission issued by the Natio	onal Board of Boiler and Press	ure Vessel Inspectors
and the State or Province of	Connecticut an	d employed by Lumbermer	ns Mutual Co.
or North Quincy,	Mass. have inspected the p	numo or valve described in	this Data Report on
4-11-	19 $\frac{28}{}$ and state that to the best o	f my knowledge and belief the i	Manufacturer has con-
	accordance with the ASME Code, Sec		Maria de la companya
on dates and pamp, of varve, in a	accordance with the ASIME Code, Sec	ation in.	
By signing this certificate, neither	er the Inspector nor his employer m	akes any warranty, expressed o	ir implied, concerning
	Data Report, Furthermore, neither t		
manner for any nersonal injury of	t property damage or a loss of any	and arising from or connected y	with this inspection.
	11 78		,
Date	<u>//-</u> 19 <u>/ 0</u>	21 (24)	
- JAMA (JAMI)	Commissions	<u> </u>	ad No.1
((inspector)	//- 19 78 Commissions	(Maci da, State, rrov. ar	10 170.)

1P54-009

1. Owner: FIRSTENERGY CORP. 10 Center Road, Perry, Ohio 44081 2. Plant: Perry Nuclear Power Plant (PNPP) 10 Center Road, Perry, Ohio 44081 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 (Repair Org. P.O. No., etc.) 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda N/A Code Case (s) Code Case (s) P. Addenda N/A Code Case (s) P. Addenda N/A Code Case (s) Code Case (s) P. Addenda N/A Code Case (s) P. Ad	1. Owner: FIRSTENERGY CORP. Date \$\frac{5}{19/07}\$ 10 Center Road, Perry, Ohio 44081 Sheet 1 of 2 2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE 10 Center Road, Perry, Ohio 44081 ORDER 200173873 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 3 Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION JII NC NAME/SECTION/DINSION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition Addenda Code Case(c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A Addenda Code Case(s) N/A Code Case(s) Poly Edition Addenda Code Case(s) Poly Edition Code Case(s) Poly Edition Of Components Repaired, Modification, or Replacement, Poly Edition Of Components Repaired, Modification of Components Repaired, Modification Poly Poly Poly Poly Poly Poly Poly Poly	מענים איש מאטא		equired by the Prov	isions of the	ne ASME C	ode Secti	ion XI	NQI-1741
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE 10 Center Road, Perry, Ohio 44081 ORDER 200173873 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 33 Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A Edition Addenda Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda N/A Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda N/A Code Case (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 5. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No. No. 1985 REPLACEMENT YES	2. Plant: Perry Nuclear Power Plant (PNPP) 10 Center Road, Perry, Ohio 44081 2. Plant: Perry Nuclear Power Plant (PNPP) 10 Center Road, Perry, Ohio 44081 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLAS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (c) ASME Code Section XI applicable for Inservice Inspection: 1989 NA Addenda Code Case(s) N-242-1,N-272,N-2	PINER ING. 3000 .							NQI-17-
2. Plant: Perry Nuclear Power Plant (PNPP) Unit ONE 10 Center Road, Perry, Ohio 44081 ORDER 200173873 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 33 Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A Edition Addenda Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda Code Case (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 5. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Name of Manufacturer Serial No. Board ID. Built Replacement, Code Case Open Pling Pullman 19-54 76 NA 1985 REPLACEMENT YES	2. Plant: Perry Nuclear Power Plant (PNPP) 10 Center Road, Perry, Ohio 44081 3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP 10 Center Road, Perry, Ohio 44081 Authorization No. 3 Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/OMISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 Addenda Code Case(s) ASME Code Section XI applicable for Inservice Inspection: 1989 NA Addenda Code Case(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989 NA Addenda Code Case(s) Position Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No.	1. Owner: _							
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Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A Addenda Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda Code Case(s) (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No. Board ID. Built Replacement, Code Stamped PIPING PULLMAN 1P-54 76 NA 1985 REPLACEMENT YES	Expiration Date 9-28-08 4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (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 N/A Addenda Code Case(s) (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 19 89 EDITION 19 N/A Addenda N/A Code Case(s) (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 5. Identification of Components Repaired, Modified, or Replacement Components Name of Manufacturer Serial No. Board ID. Built Replacement, or Modification of Modification Stampe PIPING PULLMAN 1P-54 76 NA 1985 REPLACEMENT YES YES Description of Work: REPLACED CHECK VALVE CV1B-0430 WITH NEW CHECK VALVE SN-N99934-00-0001. FTierr 15 1P S4 F 10 9 8. PW17 1/9/67 TGL 7 19/67	Work Perfo	ormed By: _FIRSTI	ENERGY Nuclear Op	erating Co	mpany PNPF	2	Type Code Sym	bol Stamp J
4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A Edition Addenda Code Case (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 19 89 EDITION 19 N/A Addenda N/A Code Case(s) (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No. Board ID. Built Replacement, or Modification of Modification Stamped PIPING PULLMAN 1P-54 76 NA 1985 REPLACEMENT YES	4. Identification of System: 1P54 FIRE PROTECTION 5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Ca (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A N/A Code Ca (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda Code Case(s) (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 5. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Not Board ID Built Replacement, or Modification Stampe PIPING PUILLMAN 1P-54 76 NA 1985 REPLACEMENT YES The Description of Work: REPLACED CHECK VALVE CV1B-0430 WITH NEW CHECK VALVE SN-N99934-00-0001. From 15 1P 54 F 10 9 8, 2017 1/9/67 TGL 7/9/67		10 C	enter Road, Perry,	Ohio 440	<u>81</u>		Authorization No	o. <u>33</u>
5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTION/DIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A MADDICAGE (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda Code Case(s) (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No. Board ID. Built Replacement, or Modification or Modification Stamped PIPING PULLMAN 1P-54 76 NA 1985 REPLACEMENT YES	5. (a) Applicable Construction Code: ASME SECTION III NC NAME/SECTIONDIVISION/CLASS WINTER 19 75 Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (b) Construction Code used for repairs, modifications, or replacements: 1974 WINTER 75 Edition Addenda Code Case(s) N-242-1,N-272,N-224,N-413,1644-5 (c) ASME Code Section XI applicable for Inservice Inspection: 1989 N/A N/A Edition Addenda Code Case(s) (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements: 1989, EDITION 19 N/A Addenda N/A Code Case(s) (e) Design Responsibilities FIRSTENERGY NUCLEAR OPERATING COMPANY PNPP 6. Identification of Components Repaired, Modified, or Replacement Components Name of Name of Manufacturer Serial No. Board ID. Built Replacement, or Modification or Modification Stampe PIPING PULLMAN 1P-54 76 NA 1985 REPLACEMENT YES PIPING PULLMAN 1P-54 76 NA 1985 REPLACEMENT YES T. Description of Work: REPLACED CHECK VALVE CV1B-0430 WITH NEW CHECK VALVE SN-N99934-00-0001. FT 15 1P 54 F 10 9 8, 79/1 1/9/67							Expiration Date (9-28-08
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·		∍N- N99954-υτ)-0001. P · · -				11/~,	با بالم	
·	. Test Conducted: Hydrostatic- Pneumatic- Nominal Operating Pressure- Other-	Toet Condu	-1 Hudrostatir	- □ Pneumat	e- []	Nominal On	otina Pr	ouro ⊠ Othi	C

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back) NOI-1741
. Remarks: N/A
O NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN FFECT 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 Sept 28, 20 08
Date 5/19/ 2007_Signed FENOC-PNPP MISSIMUM QE (name of repair organization) (authorized representative) (title)
CERTIFICATE OF INSPECTION/INSERVICE INSPECTION 1. JACOB C. SCHOLL 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 <u>HSB-CT</u> of <u>HARTFORD, CT</u> have inspected the repair, modification or replacement described in this report on <u>5.21</u> , 20 <u>0.7</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 5-21, 20 07 Signed Jacob Lobell Commissions NB7920 ANBI- OH 432 (inspector) (National Board (include endorsements), and jurisdiction, and no.)

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1954-009 pg 20+2

Q.C.-398, Rev. B Form NPV-1

			HOLDERS' DATA R he Provisions of the A				ALVES*
		2.11	A-4:	4.6 1.11.11	ru-datab Ca W		Pg. 1 of 2
1.	Manufactured and certif	led by	Anderson Greenwoo				02093
	N4 C . 16		•	and address of		inider)	
٤.	Manufactured for	·····		RST ENERGY			
,	the standard with		•	and address of			
١.	Location of installation			PERRY			
	Mad I Mar Control	T SUID O	470 000 11 0	(name and ad	•	0 600	N//A
•	Model No., Series No.,	or type CVIB-0	430-SSB-N Drawing	DS-C99934	Rev	B CRN	N/A
	ASME Code, Section III	L Division 1:	1974	W'75		2	N/A
	:		(edition)	(addenda dat	(c)	(class)	(Code Case no.
	Pump or valve	VALVE	Nominal inler size	4	Outlet :	/	4
	· · · · · · · · · · · · · · · · · · ·			(in.)		·	(in.)
	Material:			(,			()
	(a) valve Body	SA182 GR.F316	Bonnet	Disk	SA479 GR.F316	Bolting	
	(b) pump Casting		Cover	Bolting			
	, , , , , , , ,					-	
	; (a)	(b)	(c)		(d)		(e)
	Cert.	Nat'l	Body/Ca	sing	Bonnet/Cover		Disk
	Holder's	Board	Seria	_	Serial		Serial
	Serial No.	No.	No.	-	No.		No.
	N99934-00-0001		BODY	N90	00406-31-0001	.*	
			DISC	N90	00408-31-0001		
			HINGE PIN BI	JSHING N90	00416-31-0002		
			HINGE PIN BI	JSHING N90	00416-31-0001		
			HEX HEAD CAL	SCREW N98	354-34-0005		
			SLOTTED N	UT N97	860-33-0007		
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This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

1.1

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

				Certificate Ho	older's Serial No	N99934-00-0001
B. Design conditions	500 (pressure	psi	(temperature)	Fof va	dve pressure class	ANSI CL 300
O. Cold working pressure		720	psi at 100°F			
0. Hydrostatic test	1125	psi.: Disk	differential test p	ressure	N/A	psi
1. Remarks:		·			en de la composition della com	
`	·					
		OF.	percuration of	DESTAN		
•		CE	RTIFICATE OF	DESIGN		
Design Specification certified by	fied by	WALTER C	. FLENSBURG	P.E. State _ P.E. State _	OH Reg.	No. 49729 No.
		CERTI	FICATE OF CO	MPLIANCE		
We certify that the statements of the ASME Code, Section I	made in this	s report are corr	ect and that this pur	np or valve confe	orms to the rules for co	onstruction
N Certificate of Authoriza	tion No		N-1876	·	Expires 30 S	SEPTEMBER 2007
Date 4-1744-07	Name	andersún gr	EENWOOD/CROSB	Signed	DIE TUE	_
		(N Certit	icute Holder)		· (authorized r	epresentative)
		CERT	IFICATE OF IN	SPECTION		
I, the undersigned, holding the State or Province of		Massachusetts	and e	mployed by _	HSB-C	T .
12-20		d state that to	the best of my kn	owledge and be	valve, described in the lief, the Certificate	
structed this pump, or valv			•			:
By signing this certificate, component described in this	neither the Data Repo	inspector nor l ort. Furtherm	nis employer make ore, neither the in	es any warranty spector nor his	, expressed or impli employer shall be li	ed, concerning the
for any personal injury or p	roperty dan	nage or a loss	of any kind arisin	g from or com	ected with this inspe	ction.
Date JAN 4, 07 Sign	ied	VilyRa	Con	mmissions	MA-1420	A,N,I,S
<u></u>	((Authorized In	spector) (Na	et'l. Bd. (incl. l	Endorsements) and s	tate or prov. and no.)