FENOC
FirstEnergy Nuclear Operating Company

Perry Nuclear Power Station
10 Center Road
Perry, Ohio 44081

Mark B. Bezilla
Vice President

440-280-5382
Fax: 440-280-8029

August 5, 2009
L-09-197

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

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

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

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

Sincerely,

Mark B. Bezilla

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

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

A047
NRR

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

FORM NIS-1 OWNERS REPORT FOR INSERVICE INSPECTIONS

As required by the provisions of the ASME Code Rules

1. Owner FirstEnergy Nuclear Operating Company, 76 South Main Street, Akron, OH 44308
(Name and Address of Owner)

2. Plant Perry Nuclear Power Plant, 10 Center Road, Perry, OH 44081
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 11/18/87 6. National Board Number for Unit N/A

7. Components Inspected (only the systems with Class 1 and 2 components are listed in following table)

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

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

FORM NIS-1 (Back)

8. Examination Dates 5/14/07 to 5/13/09

9. Inspection Period Identification: Third Period

10. Inspection Interval Identification: Second

11. Applicable Edition of Section XI 1989 Addenda None

12. Date/Revision of Inspection Plan: Rev 13, PNPP Inservice Examination Program Plan, dated 1/23/09

13. Abstract of Examinations and tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

    See attached summary report P0059-0012*

14. Abstract of Results of Examinations and Tests.

    See attached summary report P0059-0012*

15. Abstract of Corrective Measures.

    See attached summary report P0059-0012*

* Report is 198 two-sided pages in length.

We certify that a) the statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date 7/9/09 Signed FENOC By Richard M. Fili

Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Hartford Steam Boiler of Hartford, CT have inspected the components described in this Owner's Report during the period 5/14/07 to 5/13/09, and state that to the best of my knowledge and belief the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

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

Thomas J. Fagan Commissions NB9330 "N", "I", & "A", Ohio Commission

Inspector's Signature National Board, State, Province, and Endorsements

Date 7/9/09

1. Owner FirstEnergy Nuclear Operating Company, 76 South Main Street, Akron, OH 44308
(Name and Address of Owner)

2. Plant Perry Nuclear Power Plant, 10 Center Road, Perry, OH 44081
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 11/18/87 6. National Board Number for Unit N/A

7. Components Inspected (only the systems with Class 1 and 2 components are listed in following table)

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

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT #1

LOCATED AT: 10 Center Road
Perry, Ohio 44081

OWNER: FirstEnergy Nuclear Operating Company
76 South Main Street
Akron, Ohio 44308

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

NRC DOCKET NUMBER:	50-440
FACILITY FULL POWER LICENSE:	NPF-58
CAPACITY, Mwe:	1305
COMMERCIAL OPERATION DATE:	November 18, 1987
INSPECTION INTERVAL:	November 18, 1998 - May 17, 2009
INSPECTION PERIOD:	Third (Nov 18, 2005 - May 17, 2009)
REFUELING OUTAGE:	RF012
DOCUMENT COMPLETED:	July 9, 2009

ABSTRACT

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

ASME Section XI requires reporting of examination results for Class 1 and 2 pressure retaining components and their supports. This report summarizes the results of Class 1 and 2 examinations, and also Class 3 and Augmented examinations, which were performed in accordance with the schedules within PNPP's Inservice Examination Program Plan (ISEP), Revision 13.

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

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

In-vessel examinations consisted of the required Code visual examinations along with augmented visual examinations of numerous vessel interior components. Augmented ultrasonic examinations were also performed on the 20 Jet Pump Hold-Down Beams. Baseline visual examinations were performed on the Steam Dryer. The baseline exams identified minor indications on two Lifting Rod to Lifting Eye Barrel tack welds, one Upper Brace to Bank A End Panel weld, and within the Support Ring; reference CR's 09-54923, 09-55345 and 09-54661. The augmented visual and ultrasonic examinations were primarily conducted in accordance with the Boiling Water Reactor Vessel and Internals Project (BWRVIP) inspection guidelines. Minor jet pump wedge wear was found on jet pump 6 and 13 and evaluated as acceptable for operation through RFO13 (refer to CR 09-54819). Minor Wedge Rod wear was also found on a number of Jet Pumps; refer to CR 09-55400. Follow-up examinations of the vessel interior crud deposits found during RFO9 were performed and the crud deposits were found to be essentially unchanged (refer to CR's 03-01995 & 05-01928). Follow-up examinations were also performed on the SHSAM bolts for the anti-rotation pin wear found in RFO9. SHSAM #2 & 8 were modified this outage under Engineering Change Package 06-0021, Order 200081398. A follow-up Condition Report, 09-55364 was written document the condition going forward into Cycle 13 (also refer to CR's 03-02831 & 05-01794). A surveillance sample holder (SSH-2) was also found to have a bent bail handle; refer to CR 09-55513.

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

CONTENTS

1.0 INTRODUCTION

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

This report covers inservice inspection activities performed from Perry Nuclear Power Plant (PNPP)'s return to commercial operation after refueling outage RFO11 through the completion of RFO12.

Included in this report are the following:

- Personnel and Equipment Listings
- Examination Results Summaries
- NIS-2/NR-1 Reports
- Other Pertinent Information

2.0 REFUELING OUTAGE DURATION

The Perry Nuclear Power Plant, Unit #1, was shutdown for RFO12 from February 23, 2009 to May 13, 2009. The plant returned to commercial operation on May 13, 2009, at 13:02. This is noted as the time when the generator was synchronized to the grid.

3.0 CODE REQUIREMENTS

The inservice inspections were conducted in accordance with the requirements of ASME B&PV Code, Section XI, Division 1, 1989 Edition, no Addenda, with Code Cases N-307-3, N-416-3, N-457, N-460, N-461-1, N-491-2, N-498-4, N-509, N-513-2, N-522, N-524, N-526, N-532-4, N-546, N-552, N-566-2, N-568, N-578 as applied in PNPP's Risk-Informed Class 1 Piping program, N-586-1, N-592, N-598, N-599, N-601, N-613-1, N-623, N-624, N-647, N-648-1, N-652-1, N-663, N-664, N-695 and N-700.

4.0 INSPECTION

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

5.0 CERTIFICATIONS

Personnel, equipment, and transducer certifications were maintained as required by code and procedures. This section identifies the personnel and equipment utilized in the performance of inservice examinations during Cycle 12 operations and RFO12. Certification records for personnel and equipment are kept on site and are available for review.

5.1 Personnel

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

The following is a listing of personnel responsible for the performance of the NDE activities related to ISI during Cycle 12 operations and RFO12:

ISI NDE PERSONNEL

Name	UT	PT	MT	VT
Andrie, Bryan	NA	NA	NA	II+
Blood, Eric	NA	NA	NA	II++
Blum, William	III**	III	III	NA
Bohn, Joseph	NA	NA	NA	II++
Boyd, Rodney	NA	NA	NA	II++
Bryan, Timothy	II*	NA	NA	NA
Bryd, James	NA	NA	NA	II++
Buck, George	III**	II	II	III
Burton, Chad	II***	NA	NA	NA
Catron, Earnest	III**	NA	NA	NA
Cave, Peter	NA	IIL	IIL	II
Clare, John	NA	NA	NA	II+
Crawford, Timothy	NA	NA	NA	II++
Devito, Michael	NA	IIL	IIL	II
Drews, Michael	NA	NA	NA	II++
DuBose, George	III^	III	III	NA
Duncan, Michael	NA	NA	NA	II++
Duron, Robert	II^	NA	NA	NA
Erbacher, Lester	NA	NA	NA	II
Erickson, Scott	III**	III	III	III
Fish, Cody	II***	NA	NA	NA
Fish, Karen	II^	NA	NA	NA
Fish, Ken	II***	NA	NA	NA
Fish, Kevin	II***	NA	NA	NA
Fitzgerald, Michael	NA	NA	NA	II++
Franklin, Sean	NA	NA	NA	II+
Green, Jerry	NA	NA	NA	II+++
Hancock, David	II**	II	II	II
Herman, Dustin	NA	NA	NA	II++
Hess, S. Rodney	NA	NA	NA	II+++
Holloway, Mark	NA	NA	NA	II++
Huhe, Troy	II**	II	II	NA
Hurley, Melvin	NA	IIL	NA	II
Joffe, Christopher	NA	NA	NA	II++
Joffe, Nicholas	NA	NA	NA	II++
Johnson, Gary	NA	IIL	IIL	II
Jopko, Steve	NA	IIL	NA	II
Kemp, Michael	NA	NA	NA	III++
Lesnjak, Damijan	II	II	IIL	II
Lynch, Norbon	NA	NA	NA	II+
Matthys, Russell	NA	NA	IIL	II
McCain, Samuel	NA	NA	NA	II++
Messenger, John	NA	NA	NA	III
Munson, Dewey	III**	III	III	III
Musgrove, Floyd	NA	NA	NA	II+++
Neau, David	NA	NA	NA	III++

ISI NDE PERSONNEL (Continued)

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

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

5.2 Equipment and Materials

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

The following is a listing of NDE equipment and materials used for the performance of the NDE work activities related to ISI during Cycle 12 operations and RFO12:

THERMOMETERS

Manufacturer	Model No.	PNPP M&TE No.
OMEGA	450 Digital	L80Z0103A
OMEGA	450 Digital	L80Z0103B
OMEGA	450 Digital	L80Z0103D
OMEGA	450 Digital	L80Z0103N
OMEGA	450 Digital	L70M0019F
OMEGA	450 Digital	L70M0019J

MAGNETIC PARTICLE EQUIPMENT

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

Manufacturer	Type	Batch No.
Magnaflux	1 Gray Powder	38118

ULTRASONIC FLAW DETECTORS

Manufacturer	Model	Serial No.
PANAMETRICS	Epoch 4	061487310
PANAMETRICS	EPOCH 4	081579202
PANAMETRICS	EPOCH 4	081577402
Zetec+	MICRO TOMOSCAN	133892
Zetec+	MICRO TOMOSCAN	18121-07
Zetec+	MICRO TOMOSCAN	228337-03

+ Used for Auto DM weld exams.

ULTRASONIC COUPLANTS

Manufacturer	Type	Batch No.
Sonotech	Ultragel II	92125

TRANSDUCERS APPROVED FOR USE FOR MANUAL EXAMS

Manufacturer	Serial Number	Type	Size	Frequency	Angle
Harisonic	3251	A10	.50	10.0 MHz	0
Harisonic	6869	A10	.50"	10.0 MHz	0
KBA	00C520	Comp-G	.375"	2.25 MHz	N/A
KBA	00CT34	Comp-G	.375	1.5 MHz	N/A
KBA	00MPX8	Comp-G	.50"	1.5 MHz	N/A
KBA	00MXB4	Comp-G	.50"	2.25 MHz	N/A
KBA	01DXNH	Comp-G	.375"	2.25 MHz	N/A
KBA	01F4WN	Comp-G	.375"	5.0 MHz	N/A
KBA	01FC6J	Comp-G	.375"	5.0 MHz	N/A
KBA	01FC6L	Comp-G	.375"	5.0 MHz	N/A
KBA	01FYW9	Comp-G	.375"	5.0 MHz	N/A
KBA	01FYWD	Comp-G	.375"	5.0 MHz	N/A
KBA	01H1WP	Comp-G	.375"	2.25 MHz	N/A
KBA	01H2MF	Comp-G	.375"	1.5 MHz	N/A
KBA	01H2MH	Comp-G	.375"	1.5 MHz	N/A
KBA	01H2MJ	Comp-G	.375"	1.5 MHz	N/A
KBA	01H6D1	Comp-G	.375"	1.5 MHz	N/A
KBA	01H6D2	Comp-G	.375"	2.25 MHz	N/A
KBA	01H6D6	Comp-G	.375"	2.25 MHz	N/A
KBA	01J9H1	FDCP-XDCR	.50"	2.25 MHz	0
KBA	01JB0M	Comp-G	.5"	5.0 MHz	N/A
KBA	01JB0N	Comp-G	.5"	5.0 MHz	N/A
KBA	01JB0P	Comp-G	.5"	5.0 MHz	N/A
KBA	01JB58	Comp-G	.25"	2.25 MHz	N/A
KBA	01JB59	Comp-G	.25"	2.25 MHz	N/A
KBA	01JB5B	Comp-G	.25"	2.25 MHz	N/A
KBA	01JB5C	Comp-G	.25"	2.25 MHz	N/A
KBA	01JBR1	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBR3	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBR4	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBR5	Comp-G	.25"	5.0 MHz	N/A
KBA	01JBRK	Comp-G	.5"	5.0 MHz	N/A
KBA	01JBRL	Comp-G	.5"	5.0 MHz	N/A
KBA	01JCT0	Comp-G	.25"	5.0 MHz	N/A
KBA	01JCTK	Comp-G	.5"	2.25 MHz	N/A
KBA	01JCTL	Comp-G	.5"	2.25 MHz	N/A
KBA	01JHFT	Comp-G	.5"	2.25 MHz	N/A
KBA	01JL02	Comp-G	.25"	2.25 MHz	N/A
KBA	01JNKV	Comp-G	.5	1.5 MHz	N/A
KBA	01JNKX	Comp-G	.5	1.5 MHz	N/A
KBA	01JNKY	Comp-G	.5	1.5 MHz	N/A
KBA	01JNVP	FDCP-XDCR FHP	.375"	3.5 MHz	0
KBA	01JNVR	FDCP-XDCR FHP	.375"	3.5 MHz	0
KBA	01JP1V	Comp-G	.5	1.5 MHz	N/A
KBA	01JP5X	FDCP-XDCR F-HP	.50"	3.5 MHz	0
KBA	01JP5Y	FDCP-XDCR F-HP	.50"	3.5 MHz	0
KBA	01JP61	FDCP-XDCR	.25"	5.0 MHz	0
KBA	01JP62	FDCP-XDCR	.25"	5.0 MHz	0
KBA	01JP68	FDCP-XDCR	.375"	5.0 MHz	0
KBA	01JP6B	FDCP-XDCR	.375"	5.0 MHz	0
KBA	01JP6J	FDCP-XDCR	.50"	2.25 MHz	0
KBA	01JP6L	Comp-G	.5"	5.0 MHz	N/A
KBA	01JP6M	Comp-G	.5"	5.0 MHz	N/A

Manufacturer	Serial Number	Type	Size	Frequency	Angle
KBA	01JPWC	FDCP-XDCR	.25"	2.25 MHz	0
KBA	01JPWD	FDCP-XDCR	.25"	2.25 MHz	0
KBA	01JR8J	FDCP-XDCR	.375"	2.25 MHz	0
KBA	01JR8K	FDCP-XDCR	.375"	2.25 MHz	0
KBA	01L7WV	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7WW	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7WX	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7WY	Comp-G	.250"	1.5 MHz	N/A
KBA	01L7X0	Comp-G	.250"	1.5 MHz	N/A
KBA	01LJC5	FDCP-XDCR	.25"	3.5 MHz	0
KBA	01LJC7	FDCP-XDCR	.25"	3.5 MHz	0
KBA	01P7DH	FDCP-XDCR	.375"	10.0 MHz	0
KBA	574613965	MSEB 2	(½ ø11) mm	2.0 MHz	0
KBA	574614023	MSEB 2	(½ ø11) mm	2.0 MHz	0
KBA	5746220467	MSEB-4	3.5 x 10	4.0 MHz	0
KBA	5746220492	MSEB-4	3.5 x 10	4.0 MHz	0
KBA	SE0082	Comp-G	.5"	2.25 MHz	N/A
Panametrics	284242	A111S	.50"	10.0 MHz	0
Panametrics	288670	A111S	.50"	10.0 MHz	0

TRANSDUCERS APPROVED FOR USE FOR AUTOMATED EXAMS

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

Manufacturer	Serial Number	Type	Size	Frequency	Angle
RTD	04-294	45°TRL2-Aust	2(8 x 14)mm	2.0 MHz	45
RTD	04-296	45°T1.5-Aust	(16 x 10)mm	1.5 MHz	45
RTD	04-298	45°T1.5-Aust	(24x17) mm	1.5 MHz	45
RTD	04-303	45°TRL2-Aust	2(10x18) mm	2.0 MHz	45
RTD	04-307	70°TRL2-Aust	2(10x18) mm	2.0 MHz	70
RTD	04-314	60°TRL1-Aust	2(10x18)mm	1.0 MHz	60
RTD	04-315	60°TRL1-Aust	2(10 X 18)mm	1.0 MHz	60
RTD	04-317	60°TRL1-Aust	2(10x18) mm	1.0 MHz	60
RTD	04-318	45°TRL2-Aust	2(15 X 25)mm	2.0 MHz	45
RTD	04-319	45°TRL2-Aust	2(15 X 25)mm	2.0 MHz	45
RTD	04-322	60°TRL2-Aust	2(15 X 25)mm	2.0 MHz	60
RTD	04-323	60°TRL2-Aust	2(15 X 25)mm	2.0 MHz	60
RTD	04-324	70°TRL2-Aust	2(15 X 25)mm	2.0 MHz	70
RTD	04-325	70°TRL2-Aust	2(15 X 25)mm	2.0 MHz	70
RTD	04-327	70°TRL2-Aust	2(15 X 25)mm	2.0 MHz	70
RTD	04-331	45°TRL1-Aust	2(15 X 25)mm	1.0 MHz	45
RTD	04-336	60°TRL1-Aust	2(15 X 25)mm	1.0 MHz	60
RTD	04-337	60°TRL1-Aust	2(15.X 25)mm	1.0 MHz	60
RTD	04-341	45°TRL1-Aust	2(20 x 34)mm	1.0 MHz	45
RTD	04-342	45°TRL1-Aust	2(20 x 34)mm	1.0 MHz	45
RTD	04-344	60°TRL1-Aust	2(20x34) mm	1.0 MHz	60
RTD	04-347	60°TRL1-Aust	2(20 x 34)mm	1.0 MHz	60
RTD	04-429	45° TRL1-Aust	2(15x25) mm	1.0 MHz	45
RTD	05-1054	60° TRL2-Aust	2(15x25) mm	2.0 MHz	60
RTD	05-1055	60° TRL2-Aust	2(15x25) mm	2.0 MHz	60
RTD	05-139	45° TRL1-Aust	2(20 X 34) mm	2.0 MHz	45
RTD	05-141	45° TRL2-Aust	2(15x25) mm	2.0 MHz	45
RTD	05-144	60° TRL1-Aust	2(20 X 34) mm	2.0 MHz	60
RTD	05-146	60° TRL2-Aust	2(10x18)mm	2.0 MHz	60
RTD	05-147	60° TRL2-Aust	2(7x10) mm	2.0 MHz	60
RTD	05-159	45°TRL1-Aust	2(10x18) mm	1.0 MHz	45
RTD	05-160	45° TRL1-Aust	2(10x18) mm	1.0 MHz	45
RTD	05-174	45° TRL2-Aust	2(15x25) mm	2.0 MHz	45
RTD	05-175	60° TRL2-Aust	2(7x10) mm	2.0 MHz	60
RTD	05-176	70° TRL2-Aust	2(7x10) mm	2.0 MHz	70
RTD	06-502	0° TRL-2 Aust	2(½ ø10) mm	2.0 MHz	0
RTD	06-505	45°T 1.5-Aust	(24x17) mm	1.5 MHz	45
RTD	06-506	45°T 1.5-Aust	(24x17) mm	1.5 MHz	45
RTD	06-508	42°TRL2-Aust	2(8x14) mmm	2.0 MHz	42
RTD	98-144	45°T-1.5 Aust	(16x10) mm	1.5 MHz	45
RTD	98-154	45°T-1.5 Aust	(24x17) mm	1.5 MHz	45
RTD	98-156	45°T-1.5 Aust	(24x17) mm	1.5 MHz	45
RTD	98-158	45°T 1.5-Aust	(24 x 17)mm	1.5 MHz	45
RTD	98-161	45°TRL2-Aust	2(10x18) mm	2.0 MHz	45
RTD	98-163	45°TRL2-Aust	2(10X18)mm	2.0 MHz	45

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

6.0 CALIBRATION STANDARDS

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

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

7.0 PROCEDURES AND INSPECTION PLANS

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

Perry NDE Procedures:

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

GEH NDE Procedures:

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

8.0 RELIEF REQUESTS

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

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

The following listing summarizes all the relief requests that have been submitted to and approved by the NRC for PNPP's second 10-year Inspection Interval:

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

RELIEF REQUESTS CONTINUED

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

Notes:

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

9.0 SCHEDULE CHANGES

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

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

MARK NO.	DESCRIPTION AND REASON FOR CHANGE
1E12-0336	Weld 1E12-0336 is a 12" Class 2, Category C-F-2, Item C5.51 weld that was scheduled for examination in RFO12 under Order 200173621. It is the valve 1E12-F050A to pipe weld. It is located in the Steam Tunnel. It is also within the High Energy Pipe Break Exclusion Region (HEPBER). Upon un-insulating it, it was found that there is a banded and glued wall penetration seal for Penetration PAB-3067 that is on the toe of the weld. Additionally, there is very little space between the valve and the penetration which will make removal of the boot seal difficult. Finally, the weld is an area with a dose rate of up to 280 mR/hr. As an equivalent substitution, weld 1E12-0580 will be examined. It is also a 12" Class 2, Category C-F-2, Item C5.51 weld that is located within the HEPBER. It is located in room 620-03 (RHR Bravo), does not scaffolding, does not require insulation removal, and is an area with a dose rate of only 70 mr/hr. Document Change Request (DCR) Notification 600524532 was generated to update the ISEP and the Technical Assignment File for HEPBER, TAF 81871.
1B13-JPRB-P5/P6 1B13-JPRB-P13/P14 1B13-JPRS6-P5/P6 1B13-JPRS6-P13/P14 1B13-JPRS8-P5/P6 1B13-JPRS8-P13/P14 1B13-JPTW-P05 1B13-JPTW-P06 1B13-JPTW-P13 1B13-JPTW-P14	These welds were added to the scope due to Jet Pump Main Wedge Wear found on JP06 & JP13 in accordance with BWRVIP-41.

SCHEDULE CHANGES CONTINUED

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

10.0 EXAMINATION SUMMARY RESULTS

RF012 was the last refueling outage of Perry's second 10-Year Inservice Inspection Interval and it marked the completion of the third inspection period. Not including pressure testing VT-2 exams that are completed every period, completion percentages at the end of the second period are reported as follows:

CATEGORY	REQUIRED COMPLETION %[1]	ACTUAL COMPLETION %
B-A item B1.30 only	100	100
B-A other than B1.30	100	100
B-D	100	100
B-F	N/A See Note 2	N/A
B-G-1	100	100
B-G-2	100	100
B-H	N/A See Note 3	N/A
B-J	N/A See Note 2	N/A
B-K-1	N/A See Note 3	N/A
B-K of CC-N-509	100	100
B-O	100	100
C-A & B	100	100
C-C	N/A See Note 3	N/A
C-C of CC-N-509	100	100
C-D	100	100
C-F-2	100	100

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

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

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

Appendix "A" is a computer-generated summary of the Cycle 12 and RFO12 examination results. Component identifications (Mark Nos.) and order of appearance may differ slightly from that listed in Revision 13 of PNPP's Inservice Examination Program. The differences are to accommodate the database software program. Original examination data reports are on file and available for review at the site.

11.0 NIS-2/NR-1

Repairs, replacements and modifications are carried out in accordance with PNPP's Nuclear Repair & Repair (non-nuclear) Manual, which meets regulatory requirements and quality standards. Compliance of the work is delineated on NIS-2/NR-1 Forms.

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

NR-1/NIS-2 FORMS

SYS/NO	MPL NO	DESCRIPTION/COMMENTS	CLASS	PG
Reactor Pressure Vessel (1B13) Cycle 12 & RFO12 Reports:				
1B13-053	1B13-D0008	Replaced 8 cap screws and slotted washers at CRDM flange at location 42-31.	1	69

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PG
Reactor Pressure Vessel (1B13) Cycle 12 & RFO12 Reports (con't):				
1B13-054	1B13-D0008	Replaced 20 CRDMs and 8 cap screws each at locations 26-47, 10-23, 30-27, 22-31, 30-35, 06-47, 42-31, 50-47, 10-47, 14-27, 30-23, 34-55, 26-31, 10-39, 10-11, 14-35, 18-31, 42-07, 46-11 and 8-35.	1	70
Main Steam (1B21) System Cycle 12 & RFO12 Reports:				
1B21-385	1B21 1P57	Re-rated design pressure for piping, Doc-Only ECP 06-0022	2	92
1B21-405	1B21-H453	Replaced hydraulic snubber with like snubber along with bracket assy	1	93
1B21-406	1B21-H452	Replaced hydraulic snubber with like snubber and installed a load stud and 2 jam nuts.	1	94
1B21-407	1B21-H472	Replaced hydraulic snubber with like snubber along with bracket assy	1	95
1B21-408	1B21-H447	Replaced hydraulic snubber with like snubber along with bracket assy	1	96
1B21-409	1B21-H462	Replaced hydraulic snubber with like snubber along with bracket assy	1	97
1B21-410	1B21-H490	Replaced hydraulic snubber with like snubber	1	98
1B21-411	1B21-H446	Replaced hydraulic tandem snubbers with like snubbers	1	99
1B21-412	1B21-H491	Replaced hydraulic snubber with like snubber along with bracket assy	1	100
1B21-413	1B21-F0041E	Replaced SRV with like SRV	1	101
1B21-414	1B21-F0041C	Replaced SRV with like SRV	1	103
1B21-415	1B21-F0041G	Replaced SRV with like SRV	1	105
1B21-416	1B21-F0051A	Replaced SRV with like SRV	1	107
1B21-417	1B21-F0041A	Replaced SRV with like SRV	1	109
1B21-418	1B21-F0047G	Replaced SRV with like SRV	1	111
1B21-419	1B21-F0051C	Replaced SRV with like SRV	1	113
1B21-420	1B21-F0051G	Replaced SRV with like SRV	1	115
1B21-421	1B21-F0047C	Replaced SRV with like SRV	1	117
1B21-422	1B21-F0028C	Rebuilt MSIV using a new poppet	1	119
1B21-423	1B21-F0022B	Rebuilt MSIV and replaced 1 cover stud and nut	1	122
1B21-424	1B21-F0032B	Remove and reinstall test connection	1	124
1B21-425	1B21-F0032A	Remove and reinstall test connection	1	126
Reactor Recirculation (1B33) System Cycle 12 & RFO12 Reports:				
1B33-130	1B33-C0001A	Replaced pump seal cartridge assembly	1	128
1B33-131	1B33-G7066A	Replaced E-Systems hydraulic snubber with like snubber	1	130
1B33-132	1B33-G7070A	Replaced E-Systems hydraulic snubber with like snubber	1	132
1B33-133	1B33-F0067B	Rebuilt valve using 3 new body to bonnet studs and nuts	1	134
1B33-134	1B33	Replaced piping flange fasteners, 11 studs and 31 nuts	1	136
1B33-135	1B33-C0001B	Replaced pump seal cartridge assembly	1	137
Standby Liquid Control (0&1C41) System Cycle 12 & RFO12 Reports:				
1C41-039	1C41-F0029A	Replaced relief valve with like valve	2	139

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PG
Residual Heat Removal (1E12) System Cycle 12 & RFO12 Reports:				
1E12-304	1E12-F0063C	Replaced 8" check valve with like valve	2	141
1E12-305	1E12-H0588	Modified support per ECP 09-0246 by moving to a new elevation and re-welding	2	143
1E12-306	1E12-F0063B	Replaced 8" check valve with like valve	2	144
1E12-307	1E12-F0063A	Replaced 8" check valve with like valve	2	146
1E12-308	1E12-F0086	Replaced 6" check valve with like valve	1	148
1E12-309	1E12-F0084B	Rebuilt check valve using new spring and disk	2	150
1E12-310	1E12	Modifications made for the ADHR system, ECP 04-0270-01, used the following: 8' of 8" pipe, 12" x 8" reducing tee, 8" 150# gate valve and 8" elbow	2	153
1E12-311	1E12	Modifications made for the ADHR system, ECP 04-0270-01, used the following: 10" pipe, 10" gate valve, sway struts (S/N 2006-126, -128, -138, -140, & -143), 3/4" plate, 10" 90° elbow and tee, 1/2" plate, load stud and jam nut along with snubber (S/N 04616493/072)	2	155
Low Pressure Core Spray (1E21) System Cycle 12 & RFO12 Reports:				
1E21-040	1E21-H0022 1E21-H0024	Permanently removed support 1E21-H0022 and modified snubber 1E21-H0024 into a rigid strut per ECP 04-0270-01	2	161
1E21-041	1E21-F0018	Replaced relief valve with like valve	2	162
1E21-042	1E21-C0002	Replaced water leg pump	2	164
1E21-043	1E21	Modifications made for the ADHR system, ECP 04-0270-01, used the following: 12' - 10" pipe (2 diff Ht #'s), 2 - 150# 10" gate vlv's, 2 - 300# 10" gate vlv's, 1 24"x10" weldolet, 2 - 24" flanges, 1 sway strut (S/N 2006-116 & 117), 1" plate , 24" pipe & tee, 40 studs and 80 nuts	2	166
High Pressure Core Spray (1E22) System Cycle 12 & RFO12 Reports:				
1E22-074	1E22-F0035	Replaced relief valve with like valve	2	172
Reactor Core Isolation Cooling (1E51) System Cycle 12 & RFO12 Reports:				
1E51-147	1E51-F0066	Installed new disk on check valve along with 2 - 1 & 3/8" studs and 4 nuts	1	174
1E51-148	1E51-H0072	Replaced hydraulic snubber with like snubber	1	176
1E51-149	1E51-F0061	Replaced check valve with like valve along with C.S. pipe/angle	2	177
1E51-150	1E51-H2074	Replaced mechanical snubber with like snubber	1	179
1E51-151	1E51	Replaced RCIC head spray piping fasteners; 3 studs and 8 nuts on flange #1	1	180
Reactor Water Cleanup (1G33) System Cycle 12 & RFO12 Reports:				
1G33-172	1G33-F0040	Replaced 6" 1500# gate valve with like valve	2	181
1G33-173	1G33-F0039	Replaced 6" 1500# gate valve with like valve	2	184

NR-1/NIS-2 FORMS CONTINUED

SYS/NO.	MPL NO.	DESCRIPTION/COMMENTS	CLASS	PG
Local Panels and Racks (1H22) System Cycle 12 & RF012 Reports:				
1H22-005	1H22-H2761	Replaced mechanical snubber with like snubber	2	187
Containment Vacuum Relief (1M17) System Cycle 12 & RF012 Reports:				
1M17-008	1M17-H0002 1M17-H0003	Replaced tandem mechanical snubbers with like snubbers	2	188
1M17-009	1M17-H0004 1M17-H0005	Replaced tandem mechanical snubbers with like snubbers	2	189
1M17-010	1M17-H0008 1M17-H0009	Replaced tandem mechanical snubbers with like snubbers	2	190
1M17-011	1M17-H0011 1M17-H0012	Replaced tandem mechanical snubbers with like snubbers	2	191
Combustible Gas Control (1M51) System Cycle 12 & RF012 Reports:				
1M51-028	1M51-F010B	(*Corrected Copy of 1M51-028*) Replaced 36 body to bonnet nuts on valve	2	192
1M51-029	1M51-F010A	Replaced 36 body to bonnet nuts on valve	2	193
Main, Reheat, Extraction, and Misc. Drains (1N22) System Cycle 12 & RF012 Reports:				
1N22-067	1N22-H0089	Replaced mechanical snubber with like snubber	2	194
1N22-068	1N22-H0148	Replaced mechanical snubber with like snubber	1	195
Feedwater (1N27) System Cycle 12 & RF012 Reports:				
1N27-049	1N27-F0828	Added vent valve, piping, tubing and supports per ECP 04-0091.	2	196
1N27-050	1N27-F0559A	Removed and reinstalled 1-3/4" test connection from 20" check valve	1	197
Condensate Transfer and Storage (1P11) System Cycle 12 and RF012 Reports:				
1P11-011	1P11-F0060	Replaced 12 studs and 24 nuts on valve	2	198

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

APPENDIX A

"CYCLE 12 & RFO12 EXAMINATION RESULTS SUMMARY"

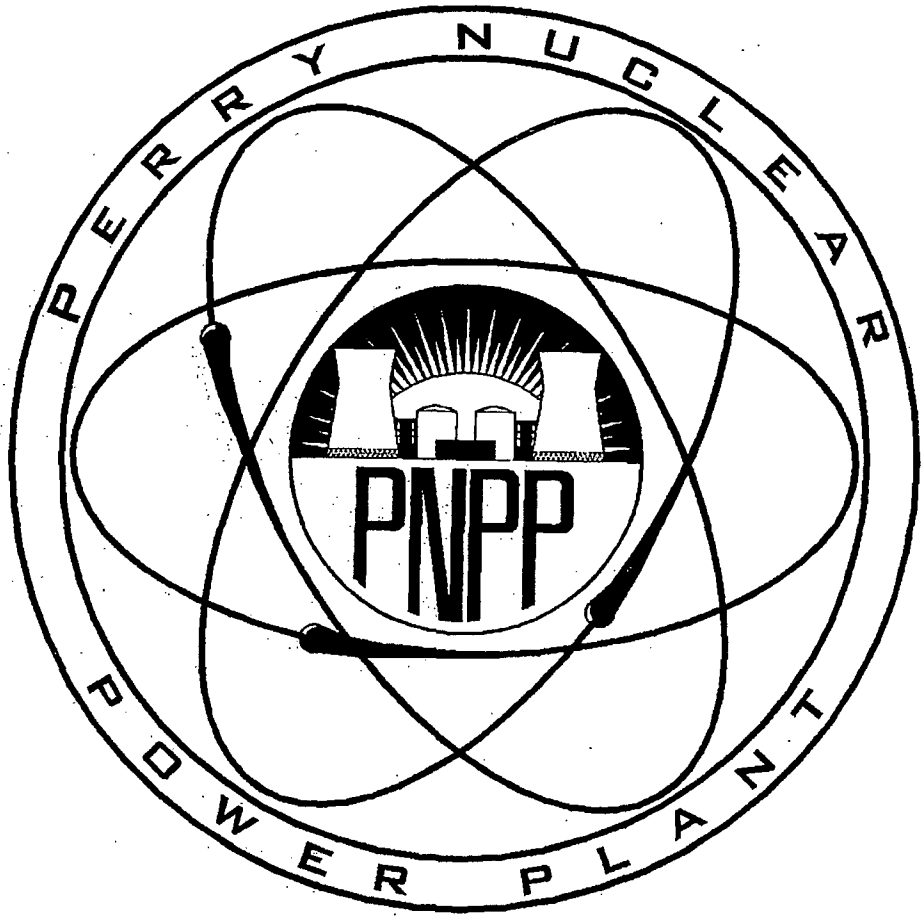
INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1



First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P0059-0012
Second Interval, Third Period, Second Outage
(RFO12)
Cycle 12 and RFO12 Inservice Examinations

Prepared by: _____ Date: 7/8/09
ISI Engineer

Reviewed by: _____ Date: 7/9/09
Authorized Nuclear Inservice Inspector

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-CG BOTTOM HEAD TO SKIRT N/A N/A 305-006-104	B-Kc B10.10	UT	0944-09-E044	NRI	No relevant indications.
1B13-CG BOTTOM HEAD TO SKIRT N/A N/A 305-006-104	B-Kc B10.10	MT	0942-09A-010	ACC	None
1B13-N4A-KB FW NOZZLE N4A TO SAFE-END - DM Weld 12" 1.16" 305-006-108	R-A R2.11	A-UT	1Q800-09003	SAT	Achieved 100% code coverage and 4 fabrication flaws identified were sized and evaluated per Table IWA-3514.2 and found to be acceptable.
1B13-N4B-KB FW NOZZLE N4B TO SAFE-END - DM Weld 12" 1.16" 305-006-108	R-A R2.11	A-UT	1Q800-09002	SAT	Achieved 100% code coverage and no relevant indications were recorded.
1B13-N4C-KB FW NOZZLE N4C TO SAFE-END - DM Weld 12" 1.16" 305-006-108	R-A R2.11	A-UT	1Q800-09-006	SAT	Exam of the pre-existing weld-overlay which recorded 2 previously identified indications were exhibited no significant change and the original crack which does not appear to have changed since application of the overlay.
1B13-N4D-KB FW NOZZLE N4D TO SAFE-END - DM Weld 12" 1.16" 305-006-108	R-A R2.11	A-UT	1Q800-09-025	SAT	Achieved 100% code coverage, no relevant indications were recorded.
1B13-N4F-KB FW NOZZLE N4F TO SAFE-END - DM Weld 12" 1.16" 305-006-108	R-A R2.11	A-UT	1Q800-09004	SAT	Achieved 100% code coverage and no relevant indications were recorded.
1B13-N5A-KB LPCS NOZZLE N5A TO SAFE-END - DM Weld 12" 1.125" 305-006-109	R-A R1.14	A-UT	1Q800-09-026	SAT	Achieved 100% code coverage and no relevant indications were recorded.
1B13-N5B-KB HPCS NOZZLE N5B TO SAFE-END - DM Weld 12" 1.125" 305-006-109	R-A R1.14	A-UT	1Q800-09-027	SAT	Achieved 100% code coverage and no relevant indications recorded.
1B13-N6A-KB RHR NOZZLE N6A TO SAFE-END - DM Weld 12" 1.125" 305-006-109	R-A R1.14	A-UT	1Q800-09-028	UNSAT	Achieved 100% code coverage. Recorded relevant indications, 1 which was unacceptable per IWB-3514.2 and was evaluated under CR 09-56393. Also reference CR 08-47166.
1B13-N6B-KB RHR NOZZLE N6B TO SAFE-END - DM Weld 12" 1.125" 305-006-109	R-A R1.14	A-UT	1Q800-09-029	SAT	Achieved 100% code coverage, recorded a relevant indication which was evaluated acceptable per IWB-3514.2.

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

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-N14B INSTRUMENTATION NOZZLE 1" N/A 305-006-106	B-E B4.13	VT-2	1Q800-09-272	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1B13-N14C INSTRUMENTATION NOZZLE 1" N/A 305-006-106	B-E B4.13	VT-2	1Q800-09-273	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1B13-N14D INSTRUMENTATION NOZZLE 1" N/A 305-006-106	B-E B4.13	VT-2	1Q800-09-274	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1B13-N18-KA LIQUID CONTROL NOZZLE 1" N/A 305-006-104	B-E B4.11	VT-2	1Q800-09-275	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1B13-CRD-NZ 177 CONTROL ROD DRIVE NOZZLES N/A N/A 305-006-110	B-E B4.12	VT-2	1Q800-09-276	SAT	VT-2 completed as a part of ISI-B21-T1300-1. CR 09-58823 was generated to document leakage identified.
1B13-ICP-NZ 53 INCORE INSTRUMENTATION NOZZLES N/A N/A 305-006-111	B-E B4.13	VT-2	1Q800-09-277	SAT	VT-2 completed as a part of ISI-B21-T1300-1, no evidence of leakage identified.
1B13-CSHP-P1 HP CORE SPRAY THERMAL SLEEVE TO FLOW DIVIDER WELDS (2) 10" 120 305-006-113	X-A X3.11	EVT1	1Q800-09-040	SAT	P1, Best Effort Exam, 0% EVT-1 Coverage. Minor Scratches and Punch Marks from Fabrication noted, NRI's. P1A, 25% Coverage, Additional 15% Coverage >30<60 Degrees, NRI's.
1B13-CSHP-CW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-038	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees. Scratch Noted 3 O'clock RHAZ, NRI.
1B13-CSHP-CW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-039	SAT	50% Coverage, Additional 5% Coverage >30 <60 Degrees. Many Scratches, NRI's.
1B13-CSHP-CCW-P2 HP CORE SPRAY FLOW DIVIDER REDUCER WELDS 6" 120/40 305-006-113	X-A X3.11	EVT1	1Q800-09-032	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees for the P2 and P2A welds. No indications.
1B13-CSHP-CCW-P3b HP CORE SPRAY HORIZONTAL PIPE TO COUPLING 6" 40 305-006-113	X-A X3.11	EVT1	1Q800-09-033	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees. 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-CSHP-CCW-P3a HP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-030	SAT	45% Coverage, Additional 5% Coverage >30<60 Degrees. No indications.
1B13-CSHP-CCW-P5 HP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-036	SAT	50% Coverage, Additional 10% Coverage >30<60 Degrees. Draw Beads Seen Below Weld, Grinding Marks, Scratches in Exam Area, NRI's.
1B13-CSHP-CCW-P6 HP CORE SPRAY COUPLING TO LOWER RISER PIPE 6" 40 305-006-113	X-A X3.11	EVT1	1Q800-09-037	SAT	50% Coverage, Additional 5% Coverage >30<60 Degrees, Draw Beads Near Weld, NRI's.
1B13-CSHP-CCW-P4c HP CORE SPRAY LOWER RISER PIPE TO ELBOW 6" 40/120 305-006-113	X-A X3.11	EVT1	1Q800-09-034	SAT	50% Coverage, Additional 15% Coverage >30<60 Degrees, Scratches and Minor Gouges in Exam Area - NRI's.
1B13-CSHP-CCW-P4d HP CORE SPRAY ELBOW TO SHROUD FLANGE 6" 120/40 305-006-113	X-A X3.11	EVT1	1Q800-09-035	SAT	85% Coverage, Additional 5% Coverage >30<60 Degrees. Many Draw Beads, All Examined - NRI's.
1B13-CSLP-CW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-043	SAT	45% Coverage, Additional 5% Coverage >30 <60 Degrees. Scratches and Stains Noted, NRI's.
1B13-CSLP-CW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-044	SAT	50% Coverage, Additional 10% Coverage >30 <60 Degrees. Discolorations, Stains and Scratches Noted, NRI's.
1B13-CSLP-CCW-P3a LP CORE SPRAY COUPLING TO HORIZONTAL PIPE 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-041	SAT	45% Coverage, Additional 10% Coverage >30 <60 Degrees. Scratches, Rub Marks, NRI's.
1B13-CSLP-CCW-P5 LP CORE SPRAY UPPER RISER PIPE TO COUPLING 6" 40 305-006-113	X-A X3.10	EVT1	1Q800-09-042	SAT	45% Coverage, Additional 10% Coverage >30 <60 Degrees. No indications.
1B13-CSS-7-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELDS (2) 5" – 305-006-115	X-A X3.20	EVT1	1Q800-09-049	SAT	35% Coverage, Additional 5% Coverage >30<60 Degrees for welds identified as S2-R and S2-L, no indications.
1B13-CSS-7-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2) 5" – 305-006-115	X-A X3.20	EVT1	1Q800-09-050	SAT	45% Coverage, Additional 10% Coverage >30<60 Degrees 090 Degree Side, 50% Coverage Additional 5% Coverage >30<60 Degrees 270 Degree Side. Scratches and Minor Gouges - NRI's.

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-7-SB CORE SPRAY SPARGER BRACKETS N/A N/A 305-006-116	X-A X3.22	VT-1	1Q800-09-051	SAT	SB-0 - 75%, SB-020 - 75%, SB-032 75%l, SB-050 - 70%, SB-069 - 75%, SB-081 - 75%, SB-280 - 75%, SB-293 - 75%, SB-311 - 75%, SB-342 - 75%. All - NRI's.
1B13-CSS-353-S2 CORE SPRAY SPARGER TEE TO SPARGER PIPE WELDS (2) 5" – 305-006-115	X-A X3.20	EVT1	1Q800-09-045	SAT	40% Coverage, Additional 5% Coverage >30 <60 Degrees for welds identified as S2-L and S2-R. No indications.
1B13-CSS-353-S3ab CORE SPRAY SPARGER SPRAY NOZZLE WELDS (2 EA NOZZ) 5" – 305-006-115	X-A X3.21	VT-1	1Q800-09-046	SAT	50% Coverage and no indications.
1B13-CSS-353-S4 CORE SPRAY SPARGER PIPE TO END CAP WELDS (2) 5" – 305-006-115	X-A X3.20	EVT1	1Q800-09-047	SAT	1B13-CSS-353-S4-090 (90 Degree Side) Coverage 45% Additional 10% Coverage >30 <60 Degrees. 1B13-Css-353-S4-270 (270 Degree Side) Coverage 60%, Additional 5% Coverage >30 <60 Degrees. No indications.
1B13-CSS-353-SB CORE SPRAY SPARGER BRACKETS N/A N/A 305-006-116	X-A X3.22	VT-1	1Q800-09-048	SAT	SB-0 - 75%, SB-020 - 75%, SB-049 70%, Movement CCW of Sparger, NRI's. SB-068 - 75%, SB-081 - 55% Movement of Sparger, NRI. SB-280 - 80%, SB-292 - 75%, SB-310 - 75%, gouges, NRI. SB-329 - 75% Weld Bead Overlap - NRI's. SB-341 - 75%. All - NRI's.
1B13-CSS-WA CORE SPRAY PIPING BRACKET WELDED ATTACHMENTS N/A N/A 305-006-114	B-N-2 B13.30	VT-3	1Q800-09001	SAT	Exams actually performed in RFO9 under 1Q800-03-021.
1B13-GRSB-WA GUIDE ROD SUPPORT BRACKET WELDED ATTACHMENTS N/A N/A 305-006-101	B-N-2 B13.30	VT-3	1Q800-09-059	SAT	100% coverage on welds WA-0 and WA-180, no indications.
1B13-UPPER-INT VESSEL INTERIOR ABOVE FW SPARGERS N/A N/A 305-006-101	X-A X6.15	VT-3	1Q800-09-066	SAT	100% coverage, CR 09-5541[illegible] was generated to document "no change" in crud build-up.
1B13-IRM-32/29 IRM INSTRUMENT DRY TUBE E N/A N/A 305-006-117	X-A X2.10	VT-3	1Q800-09-052	SAT	100% coverage, no indications.
1B13-IRM-32/37 IRM INSTRUMENT DRY TUBE F N/A N/A 305-006-117	X-A X2.10	VT-3	1Q800-09-053	SAT	100% coverage, no indications.
1B13-IRM-48/13 IRM INSTRUMENT DRY TUBE G N/A N/A 305-006-117	X-A X2.10	VT-3	1Q800-09-054	SAT	100% coverage, no indications.

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1B13-IRM-48/53 IRM INSTRUMENT DRY TUBE H N/A N/A 305-006-117	X-A X2.10	VT-3	1Q800-09-055	SAT	100% coverage, no indications.
1B13-JPA-P3/P4 JET PUMP NOZZLE TO MIXER ASSEMBLY N/A N/A 305-006-126	X-A X1.30	VT-3	1Q800-09-080	SAT	100% coverage, no indications.
1B13-JPA-P13/P14 JET PUMP NOZZLE TO MIXER ASSEMBLY N/A N/A 305-006-126	X-A X1.30	VT-3	1Q800-09-081	SAT	100% coverage, no indications.
1B13-JPHDB-P1 JET PUMP 1 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09005	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P2 JET PUMP 2 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-007	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P3 JET PUMP 3 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-008	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P4 JET PUMP 4 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-009	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P5 JET PUMP 5 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-010	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P7 JET PUMP 7 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-011	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P8 JET PUMP 8 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-012	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P9 JET PUMP 9 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-013	SAT	100% coverage, no relevant 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-JPHDB-P10 JET PUMP 10 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-014	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P11 JET PUMP 11 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-015	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P12 JET PUMP 12 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-016	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P13 JET PUMP 13 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-017	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P14 JET PUMP 14 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-018	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P15 JET PUMP 15 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-019	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P16 JET PUMP 16 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-020	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P17 JET PUMP 17 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-021	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P18 JET PUMP 18 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-022	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P19 JET PUMP 19 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-023	SAT	100% coverage, no relevant indications.
1B13-JPHDB-P20 JET PUMP 20 HOLD DOWN BEAM N/A N/A 305-006-125	X-A X1.10	UT	1Q800-09-024	SAT	100% coverage, no relevant indications.

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1B13-JPLAW-P01 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-068	SAT	100% coverage, no indications.
1B13-JPLAW-P02 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-069	SAT	100% coverage, no indications.
1B13-JPLAW-P03 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-070	SAT	100% coverage, no indications.
1B13-JPLAW-P04 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-071	SAT	100% coverage, no indications.
1B13-JPLAW-P05 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-072	SAT	100% coverage, no indications.
1B13-JPLAW-P06 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-073	SAT	100% coverage, no indications identified however FME was discovered in the area. See CR 09-55507.
1B13-JPLAW-P07 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-074	SAT	100% coverage, no indications identified however FME was discovered in the area. See CR 09-55507.
1B13-JPLAW-P08 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-075	SAT	100% coverage, no indications.
1B13-JPLAW-P09 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-076	SAT	100% coverage, no indications.
1B13-JPLAW-P10 JET PUMP SENSING LINE ATTACHMENT WELDS N/A N/A 305-006-125	X-A X1.20	VT-3	1Q800-09-077	SAT	100% coverage, no indications.
1B13-JPRB-P5/P6 JET PUMP RISER BRACE WELDS (8) N/A N/A 305-006-125	X-A X1.40	EVT1	1Q800-09-078	SAT	Examined RB-1 & RB-2 b-d welds on JP05 and RB-1 & RB-2 a-c welds on JP06 welds due to expanded scope from JP06 wedge wear and achieved 50 - 60% coverage. No indications

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1B13-JPRB-P13/P14 JET PUMP RISER BRACE WELDS (8) N/A N/A 305-006-125	X-A X1.40	EVT1	1Q800-09-079	SAT	Examined RB-1 & RB-2 b-d welds on JP13 and RB-1 & RB-2 a-c welds on JP14 welds due to expanded scope from JP13 wedge wear and achieved 50 - 60% coverage. No indications
1B13-JPREW-P11/P12 JET PUMP RISER ELBOW WELDS (2) N/A N/A 305-006-126	X-A X1.70	EVT1	1Q800-09-082	SAT	80% coverage on RS-1, 40% coverage on RS-2. No indications.
1B13-JPREW-P13/P14 JET PUMP RISER ELBOW WELDS (2) N/A N/A 305-006-126	X-A X1.70	EVT1	1Q800-09-083	SAT	90% coverage on RS-1, 40% coverage on RS-2. Non-relevant indications noted.
1B13-JPREW-P15/P16 JET PUMP RISER ELBOW WELDS (2) N/A N/A 305-006-126	X-A X1.70	EVT1	1Q800-09-084	SAT	90% coverage on RS-1, 40% coverage on RS-2. Non-relevant indications noted.
1B13-JPRS3-P1/P2 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT1	1Q800-09-085	SAT	48% coverage and no indications.
1B13-JPRS3-P3/P4 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT1	1Q800-09-086	SAT	35% coverage and no indications.
1B13-JPRS3-P5/P6 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT1	1Q800-09-087	SAT	47% coverage and non-relevant indications noted.
1B13-JPRS3-P7/P8 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT1	1Q800-09-088	SAT	30% coverage and non-relevant indications noted.
1B13-JPRS3-P9/P10 JET PUMP RISER PIPE TO TRANSITION PIECE WELD N/A N/A 305-006-126	X-A X1.71	EVT1	1Q800-09-089	SAT	30% coverage and no indications noted.
1B13-JPRS6-P5/P6 JET PUMP RISER PIPE TO RESTRAINER BRACKET WELDS (2) N/A N/A 305-006-126	X-A X1.72	EVT1	1Q800-09-090	SAT	80% coverage on the RS6/7 bracket weld on the JP06 side, examined due to main wedge wear on JP06. No indications.
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	1Q800-09-091	SAT	70% coverage on the RS6/7 weld, JP13 side exam due to main wedge wear on JP13. Non-relevant indications noted.

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

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

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1B13-SD-AH6 BANK LOWER VERT END PANEL TO BANK BOTTOM PANEL WELD, 180 N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-113	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AHS1 HOOD TO HOOD STIFFENER WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-114	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AHS2 HOOD TO HOOD STIFFENER WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-115	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV1 BANK VERT END PANELS TO OUTLET PLENUM END PANEL WELD, N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-116	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-117	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-118	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV4 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-119	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV5 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-120	SAT	100% coverage, non-relevant indications noted.
1B13-SD-AV6 BANK VERT END PANELS TO OUTLET PLENUM END PANEL WELD, N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-121	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-122	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-123	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-BV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-124	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-125	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BV6 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-126	SAT	100% coverage, non-relevant indications noted.
1B13-SD-BV7 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-127	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-128	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-129	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-130	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-131	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV6 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-132	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CV7 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-133	SAT	100% coverage, non-relevant indications noted.
1B13-SD-CP-90 COVER PLATE TO UPPER SUPPORT RING WELD, 90 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-134	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-CP-270 COVER PLATE TO UPPER SUPPORT RING WELD, 270 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-135	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC1-H DRAIN CHANNEL 1 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-136	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC2-H DRAIN CHANNEL 2 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-137	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC3-H DRAIN CHANNEL 3 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-138	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC4-H DRAIN CHANNEL 4 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-139	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC5-H DRAIN CHANNEL 5 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-140	SAT	100% coverage, indications noted were captured under the Upper Support Ring (1B13-SD-USR) exam point.
1B13-SD-DC6-H DRAIN CHANNEL 6 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-141	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC7-H DRAIN CHANNEL 7 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-142	SAT	95% coverage, non-relevant indications noted.
1B13-SD-DC8-H DRAIN CHANNEL 8 TO UPPER SUPPORT RING HORIZ WELD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-143	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V1 FIRST VERTICAL WELD OF DRAIN CHANNEL 1 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-144	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V2 SECOND VERTICAL WELD OF DRAIN CHANNEL 1 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-145	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-DC-V3 FIRST VERTICAL WELD OF DRAIN CHANNEL 2 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-146	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V4 SECOND VERTICAL WELD OF DRAIN CHANNEL 2 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-147	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V5 FIRST VERTICAL WELD OF DRAIN CHANNEL 3 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-148	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V6 SECOND VERTICAL WELD OF DRAIN CHANNEL 3 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-149	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V7 FIRST VERTICAL WELD OF DRAIN CHANNEL 4 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-150	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V8 SECOND VERTICAL WELD OF DRAIN CHANNEL 4 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-151	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V9 FIRST VERTICAL WELD OF DRAIN CHANNEL 5 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-152	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V10 SECOND VERTICAL WELD OF DRAIN CHANNEL 5 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-153	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V11 FIRST VERTICAL WELD OF DRAIN CHANNEL 6 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-154	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V12 SECOND VERTICAL WELD OF DRAIN CHANNEL 6 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-155	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V13 FIRST VERTICAL WELD OF DRAIN CHANNEL 7 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-156	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-DC-V14 SECOND VERTICAL WELD OF DRAIN CHANNEL 7 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-157	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V15 FIRST VERTICAL WELD OF DRAIN CHANNEL 8 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-158	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DC-V16 SECOND VERTICAL WELD OF DRAIN CHANNEL 8 N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-159	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-160	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-161	SAT	100% coverage, non-relevant indications noted.
1B13-SD STEAM DRYER DRAIN CHANNELS N/A N/A 305-006-119	X-A X4.10	VT-3	1Q800-09-162	SAT	100% coverage for welds DC-V01 through V16, some non-relevant indications noted.
1B13-SD-DV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-163	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-164	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DV6 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-165	SAT	100% coverage, non-relevant indications noted.
1B13-SD-DV7 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-166	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EB-30 EARTHQUAKE BLOCK AT 30 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-167	SAT	75% coverage, non-relevant indications noted.

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1B13-SD-EB-90 EARTHQUAKE BLOCK AT 90 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-168	SAT	95% coverage, non-relevant indications noted.
1B13-SD-EB-150 EARTHQUAKE BLOCK AT 150 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-169	SAT	75% coverage, non-relevant indications noted.
1B13-SD-EB-210 EARTHQUAKE BLOCK AT 210 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-170	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EB-270 EARTHQUAKE BLOCK AT 270 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-171	SAT	90% coverage, non-relevant indications noted.
1B13-SD-EB-330 EARTHQUAKE BLOCK AT 330 DEG TO UPPER SUPPORT RING WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-172	SAT	95% coverage, non-relevant indications noted.
1B13-SD-EH1 HOOD TO BANK HORIZ END PANEL WELD, TOP N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-173	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH2 BANK LOWER VERT END PANEL TO BANK BOTTOM PANEL WELD, 0 DEG N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-174	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH3 HOOD END PLATE TO UPPER SUPPORT RING WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-175	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH4 HOOD TO COVER PLATE WELD N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-176	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH5 HOOD END PLATE TO UPPER SUPPORT RING WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-177	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EH6 BANK LOWER VERT END PANEL TO BANK BOTTOM PANEL WELD, 180 N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-178	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-EHS1 HOOD TO HOOD STIFFENER WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-179	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EHS2 HOOD TO HOOD STIFFENER WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-180	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EV1 BANK VERT END PANELS TO OUTLET PLENUM END PANEL WELD, N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-181	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EV2 BANK VERT END PANELS TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-182	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EV3 HOOD TO HOOD END PLATE WELD, 0 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-183	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EV4 HOOD TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-184	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EV5 BANK VERT END PANELS TO HOOD END PLATE WELD, 180 DEG SIDE N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-185	SAT	100% coverage, non-relevant indications noted.
1B13-SD-EV6 BANK VERT END PANELS TO OUTLET PLENUM END PANEL WELD, N/A N/A 305-006-129	X-A X4.12	VT-1	1Q800-09-186	SAT	100% coverage, non-relevant indications noted.
1B13-SD-HDA-S 'A' HOLD-DOWN STUD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-187	SAT	100% coverage, non-relevant indications noted.
1B13-SD-HDB-S 'B' HOLD-DOWN STUD N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-188	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LA1 LIFTING ROD TO UPPER SUPPORT RING WELD N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-189	SAT	80% coverage, non-relevant indications noted.

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1B13-SD-LA2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-190	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LA2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-191	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LA3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-192	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LA3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-193	SAT	90% coverage, non-relevant indications noted.
1B13-SD-LA4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-194	EVAL	100% coverage, relevant indication on the 90° side tack weld. Refer to CR 09-54923.
1B13-SD-LA5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-195	SAT	100% coverage, non-relevant indications noted.
1B13-SD-STRUCT STEAM DRYER STRUCTURAL N/A N/A 305-006-119	X-A X4.11	VT-3	1Q800-09-221	SAT	95% coverage on the 90° & 270° sides, non-relevant indications noted.
1B13-SD-LB1 LIFTING ROD TO UPPER SUPPORT RING WELD N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-196	SAT	85% coverage, non-relevant indications noted.
1B13-SD-LB2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-197	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LB2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-198	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LB3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-199	EVAL	100% coverage, relevant indication on the 90° side of the weld. Refer to CR 09-54661.

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1B13-SD-LB3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-200	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LB4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-201	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LB5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-202	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC1 LIFTING ROD TO UPPER SUPPORT RING WELD N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-203	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-204	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-205	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-206	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-207	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-208	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LC5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-209	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LD1 LIFTING ROD TO UPPER SUPPORT RING WELD N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-210	SAT	95% coverage, non-relevant indications noted.

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1B13-SD-LD2a LOWER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-211	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LD2b LOWER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-212	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LD3a UPPER BRACE TO BANK A END PANEL WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-213	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LD3b UPPER BRACE PLATE TO PLATE WELD, TOP & BOTTOM N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-214	SAT	80% coverage, non-relevant indications noted.
1B13-SD-LD4 LIFTING ROD TO LIFTING EYE BARREL TACK WELDS N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-215	EVAL	100% coverage, relevant indications on both tack welds. Refer to CR 09-54923.
1B13-SD-LD5 LIFTING ROD EYE BARREL TO LIFTING EYE WELDS, BOTH SIDES N/A N/A 305-006-130	X-A X4.12	VT-1	1Q800-09-216	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LG-0 LOWER GUIDE TO LOWER SUPPORT RING WELDS, 0 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-217	SAT	100% coverage, non-relevant indications noted.
1B13-SD-LG-180 LOWER GUIDE TO LOWER SUPPORT RING WELDS, 180 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-218	EVAL	100% coverage, relevant indication from bent guide bracket. Refer to CR 09-54923.
1B13-SD-MC MANWAY COVER WELD, 270 DEG SIDE N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-219	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB1 TIE BAR 1 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-220	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB2 TIE BAR 2 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-222	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-TB3 TIE BAR 3 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-223	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB4 TIE BAR 4 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-224	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB5 TIE BAR 5 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-225	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB6 TIE BAR 6 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-226	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB7 TIE BAR 7 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-227	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB8 TIE BAR 8 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-228	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB9 TIE BAR 9 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-229	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB10 TIE BAR 10 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-230	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB11 TIE BAR 11 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-231	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB12 TIE BAR 12 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-232	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB13 TIE BAR 13 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-233	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-TB14 TIE BAR 14 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-234	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB15 TIE BAR 15 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-235	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB16 TIE BAR 16 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-236	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB17 TIE BAR 17 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-237	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB18 TIE BAR 18 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-238	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB19 TIE BAR 19 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-239	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB20 TIE BAR 20 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-240	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB21 TIE BAR 21 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-241	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB22 TIE BAR 22 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-242	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB23 TIE BAR 23 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-243	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB24 TIE BAR 24 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-244	SAT	100% coverage, non-relevant indications noted.

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1B13-SD-TB25 TIE BAR 25 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-245	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB26 TIE BAR 26 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-246	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB27 TIE BAR 27 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-247	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB28 TIE BAR 28 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-248	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB29 TIE BAR 29 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-249	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB30 TIE BAR 30 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-250	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB31 TIE BAR 31 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-251	SAT	100% coverage, non-relevant indications noted.
1B13-SD-TB32 TIE BAR 32 AND ITS BANK ATTACHMENT WELDS N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-252	SAT	100% coverage, non-relevant indications noted.
1B13-SD-USR UPPER SUPPORT RING ACCESSIBLE SURFACES, INCL RING TO SKIRT N/A N/A 305-006-128	X-A X4.12	VT-1	1Q800-09-253	EVAL	100% coverage. CR 09-55345 generated for minor axial and circumferential indications.
1B13-SHSAM SHROUD HEAD STUD ASY MOD LOCKING PINS N/A N/A 305-006-119	X-A X6.14	VT-3	1Q800-09-067	EVAL	100% coverage, relevant indications and wear were noted and SHSAM #2 & 8 were modified via ECP 06-0021. Refer to CR 09-55364.
1B13-SRM-16/21 SRM INSTRUMENT DRY TUBE B N/A N/A 305-006-117	X-A X2.10	VT-3	1Q800-09-057	SAT	100% coverage, non-relevant indications noted.

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1B13-SRM-40/45 SRM INSTRUMENT DRY TUBE D N/A N/A 305-006-117	X-A X2.10	VT-3	1Q800-09-058	SAT	100% coverage, non-relevant indications noted.
1B13-SSH-1 SURVEILLANCE SAMPLE HOLDER/SPECIMEN N/A N/A 305-006-127	X-A X6.10	VT-3	1Q800-09-060	SAT	100% coverage, non-relevant indications noted.
1B13-SSH-2 SURVEILLANCE SAMPLE HOLDER/SPECIMEN N/A N/A 305-006-127	X-A X6.10	VT-3	1Q800-09-061	SAT	100% coverage, relevant indication on a bent bail handle was noted. Refer to CR 09-55513.
1B13-SSH-3 SURVEILLANCE SAMPLE HOLDER/SPECIMEN N/A N/A 305-006-127	X-A X6.10	VT-3	1Q800-09-062	SAT	100% coverage, non-relevant indications noted.
1B13-SSH-WA-1 SAMPLE HOLDER, WELDED ATTACHMENT N/A N/A 305-006-127	B-N-2 B13.20	VT-1	1Q800-09-063	SAT	85% coverage, non-relevant indications noted.
1B13-SSH-WA-2 SAMPLE HOLDER, WELDED ATTACHMENT N/A N/A 305-006-127	B-N-2 B13.20	VT-1	1Q800-09-064	SAT	100% coverage, non-relevant indications noted.
1B13-SSH-WA-3 SAMPLE HOLDER, WELDED ATTACHMENT N/A N/A 305-006-127	B-N-2 B13.20	VT-1	1Q800-09-065	SAT	100% coverage, non-relevant indications noted.
1B21-F0041A-IS SRV, INTERNAL SURFACE (GROUPING NUMBER I) 10" N/A 305-605-101	B-M-2 B12.50	VT-3	1Q800-09-258	SAT	As-found exam of SRV that is being replaced in RFO12.
1B21-F041A-B SRV BOLTING, 12 EACH 10" N/A 305-605-101	B-G-2 B7.50	VT-1	1Q800-09-257	SAT	Examined 12 studs upon removal of existing SRV, 10 were cut to facilitate removal.
1B21-G101D RIGID GUIDE (WA) MPL 1B21G7033 26" N/A 305-605-104	F-A F1.G	VT-3	1042-09-044	SAT	None
1B21-H0074 MECHANICAL SNUBBER (WA)(TANDEM) 12" N/A 305-605-116	F-A F3.SN	VT-3	VT-09-0778	SAT	None

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

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

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1E12-0108A 24" FLANGE TO PIPE 24" 40 305-641-101	C-F-2 C5.51	UT	0944-09-E006	NRI	None
1E12-0131 18" PIPE TO ELBOW 18" 40 305-641-110	C-F-2 C5.51	UT	0944-09-E020	GEO	Previously recorded geometry noted with essentially no changes.
1E12-0145 20" PIPE TO INLET NOZZLE HEAT EXCHANGER B001A 20" 40 305-641-111	C-F-2 C5.51	UT	0944-09-E023	NRI	None
1E12-0151 20" X 18" REDUCER TO 18" PIPE 18" 40 305-641-118	C-F-2 C5.51	UT	0944-09-E026	NRI	Previously detected geometry noted at below recording levels.
1E12-0160 20" PIPE TO HEAT EXCHANGER B001C INLET NOZZLE 20" 40 305-641-118	C-F-2 C5.51	UT	0944-09-E027	NRI	None
1E12-0330 12" PIPE TO ELBOW 12" 40 305-642-119	C-F-2 C5.51	UT	0944-08-E001	NRI	None
1E12-0389 12" PENETRATION P113 PROCESS PIPE TO PIPE 12" 40 305-642-126	C-F-2 C5.51	UT	0944-09-E031	NRI	Previously recorded root geometry observed at below recordable levels.
1E12-0402 12" ELBOW TO PRB 2044 PROCESS PIPE 12" 80 305-642-126	R-A R2.ND	UT	0944-09-E032	NRI	None
1E12-0455 PIPE TO 18" ELBOW 18" 40 305-641-105	C-F-2 C5.51	UT	0944-09-E025	NRI	None
1E12-0580 12" VALVE F053B TO PIPE 12" 100 305-642-132	C-F-2 C5.51	UT	0944-09-E041	NRI	None
1E12-0968 10" X 10" X 10" TEE TO 10" PIPE 10" 80 305-641-112	C-F-2 C5.51	UT	0944-09-E036	NRI	Previously detected geometry noted at below recording levels.

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1E12-B001A-003 SHELL CYLINDER #3 TO SHELL HEAD N/A N/A 305-641-121	C-A C1.20	UT	0944-09-E024	GEO	Examined 0° to 180°. Scan performed across weld crown. Previously recorded indications were observed with essentially no changes.
1E12-B001A-004 SHELL HEAD TO INLET NOZZLE NK-N4 20" N/A 305-641-121	C-B C2.21	MT	0942-09A-008	ACC	None
1E12-B001A-004 SHELL HEAD TO INLET NOZZLE NK-N4 20" N/A 305-641-121	C-B C2.21	UT	0944-09-E028	NRI	None
1E12-B001A-004-IR INLET NOZZLE NK-N4 INNER RADIUS 20" N/A 305-641-121	C-B C2.22	UT	0944-09-E021	NRI	None
1E12-B001A-SB3-SP RIGID, HEAT EXCHANGER SUPPORT (WA) N/A N/A 305-641-121	F-A F1.40	VT-3	1042-09-014	SAT	None
1E12-B001A-SB4-SP RIGID, HEAT EXCHANGER SUPPORT (WA) N/A N/A 305-641-121	F-A F1.40	VT-3	1042-09-015	SAT	None
1E12-B001D-SB3-WA HEAT EXCHANGER SUPPORT BRACKET WELDED ATTACHMENT N/A N/A 305-643-123	C-Cc C3.10	MT	0942-09A-007	ACC	None
1E12-C002A-004 HEAD FLANGE TO HEAD SHELL N/A N/A 305-641-120	C-G C6.10	MT	0942-09A-004	ACC	None
1E12-C002A-005 18" DISCHARGE FLANGE TO 18" DISCHARGE PIPE N/A N/A 305-641-120	C-G C6.10	MT	0942-09A-005	ACC	None
1E12-C002A-010 HEAD SHELL LONGITUDINAL SEAM N/A N/A 305-641-120	C-G C6.10	MT	0942-09A-006	ACC	None
1E12-F0010-IS 20" GATE VALVE, INTERNAL SURFACE (GROUPING NO. XI) 20" N/A 305-642-117	B-M-2 B12.50	VT-3	1042-09-074	SAT	None

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1E12-F0019-SEAM 6" CHECK VALVE BODY WELD (GROUPING NO. XII) 6" N/A 305-642-122	B-M-1 B12.40	UT	0944-09-E030	NRI	Single sided exam due to component configuration.
1E12-F0042B-SEAM 12" GATE VALVE BODY WELD (GROUPING NO. XII) 12" N/A 305-642-137	B-M-1 B12.40	UT	0944-09-E033	NRI	100% Coverage, Valve Stem observed, similar to previous data.
1E12-H0016 MECHANICAL SNUBBER 12" N/A 305-642-125	F-A F1.SN	VT-3	VT-09-0779	SAT	None
1E12-H0292 MECHANICAL SNUBBER 24" N/A 305-641-101	F-A F2.SN	VT	VT-08-0008	SAT	None
1E12-H0378 MECHANICAL SNUBBER 18" N/A 305-642-102	F-A F2.SN	VT-3	VT-08-0013	SAT	None
1E12-H0390 VARIABLE SPRING (WA < .75" T) 20" N/A 305-642-101	F-A F2.SP	VT-3	1042-09-041	SAT	None
1E12-H0499 VARIABLE SPRING 18" N/A 305-641-106	F-A F2.SP	VT-3	1042-08-006	SAT	None
1E12-H0662 RIGID STRUT N/A N/A 305-641-108	F-A F2.ST	VT-3	1042-08A-002	SAT	None
1E12-H0681 MECHANICAL SNUBBER N/A N/A 305-641-103	F-A F2.SN	VT-3	VT-08-0009	SAT	None
1E12-H0772 MECHANICAL SNUBBER 12" N/A 305-642-126	F-A F2.SN	VT-3	VT-09-0485	SAT	None
1E12-H0786 RIGID STRUT 12" N/A 305-642-125	F-A F1.ST	VT-3	1042-09-065	SAT	None

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1E21-0033 14" X 12" REDUCING ELBOW TO 12" PIPE 12" 40 305-705-108	C-F-2 C5.51	UT	0944-09-E022	NRI	Previously recorded geometry noted with essentially no changes.
1E21-0053 16" FLANGE TO 16"X 14" REDUCER 16" 40 305-705-102	C-F-2 C5.51	UT	0944-09-E018	NRI	Previously detected geometry noted at below recording levels.
1E21-C001-007 24" SUCTION FLANGE TO 24" SUCTION PIPE 24" N/A 305-705-113	C-G C6.10	MT	0942-09A-001	ACC	None
1E21-C001-008 24" SUCTION PIPE TO HEAD SHELL N/A N/A 305-705-113	C-G C6.10	MT	0942-09A-002	ACC	None
1E21-C001-010 HEAD SHELL LONGITUDINAL SEAM N/A N/A 305-705-113	C-G C6.10	MT	0942-09A-003	ACC	None
1E21-C001-17B LPCS PUMP, STUD #17 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E010	NRI	None
1E21-C001-17B LPCS PUMP, STUD #17 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E001	NRI	None
1E21-C001-18B LPCS PUMP, STUD #18 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E002	NRI	None
1E21-C001-18B LPCS PUMP, STUD #18 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E011	NRI	None
1E21-C001-19B LPCS PUMP, STUD #19 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E012	NRI	None
1E21-C001-19B LPCS PUMP, STUD #19 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E003	NRI	None

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1E21-C001-20B LPCS PUMP, STUD #20 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E004	NRI	None
1E21-C001-20B LPCS PUMP, STUD #20 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E013	NRI	None
1E21-C001-21B LPCS PUMP, STUD #21 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E005	NRI	None
1E21-C001-21B LPCS PUMP, STUD #21 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E014	NRI	None
1E21-C001-22B LPCS PUMP, STUD #22 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E015	NRI	None
1E21-C001-22B LPCS PUMP, STUD #22 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E007	NRI	None
1E21-C001-23B LPCS PUMP, STUD #23 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E008	NRI	None
1E21-C001-23B LPCS PUMP, STUD #23 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E016	NRI	None
1E21-C001-24B LPCS PUMP, STUD #24 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E017	NRI	None
1E21-C001-24B LPCS PUMP, STUD #24 N/A N/A 305-705-113	C-D C4.30	UT	0944-09-E009	NRI	None
1E21-F0005-SEAM 12" GATE VALVE BODY WELD (GROUPING NO. XVI) 12" N/A 305-705-113	B-M-1 B12.40	UT	0944-09-E029	NRI	100% Coverage, observed valve stem non-relevant indication similar to previous data.

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1E21-H0005 RIGID STRUT 12" N/A 305-705-111	F-A F1.ST	VT-3	1042-09-037	SAT	None
1E21-H0023 ANCHOR (WA) 16" N/A 305-705-103	F-A F2.A	VT-3	1042-09-013	SAT	None
1E21-H0026 MECHANICAL SNUBBER (WA <.75" T) 24" N/A 305-705-101	F-A F2.SN	VT-3	VT-08-0011	SAT	None
1E21-H0062 MECHANICAL SNUBBER 12" N/A 305-705-108	F-A F1.SN	VT-3	VT-08-0012	SAT	None
1E21-H0080 RIGID STRUT (WA <.75 T) 24" N/A 305-705-101	F-A F2.ST	VT-3	1042-08-003	SAT	None
1E21-H0089 VARIABLE SPRING 12" N/A 305-705-108	F-A F1.SP	VT-3	1042-08-004	SAT	None
1G33-0101 4" PIPE TO BENT PIPE 4" 80 305-671-107	R-A R3.ND	UT	0944-09-E045	NRI	None
1G33-H0206 VARIABLE SPRING 4" N/A 305-671-107	F-A F1.SP	VT-3	1042-09-063	SAT	None
1G33-H0211 RIGID STRUT 3" N/A 305-671-102	F-A F1.ST	VT-3	1042-09-064	SAT	None
1G41-B001A-SP ANCHOR, HEAT EXCHANGER (WA) N/A N/A 305-654-108	F-A F1.40	VT-3	1042-09-027	SAT	None
1G41-B001A-WA INTEGRAL ATTACHMENT HEAT EXCHANGER ANCHOR N/A N/A 305-654-108	D-Ac D1.10	VT-1	1042-09-028	SAT	None

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1G41-H0005 RIGID ROD 10" N/A 305-655-117	F-A F3.R	VT	1042-08-009	SAT	None
1G41-H0033 RIGID GUIDE 6" N/A 305-655-110	F-A F3.G	VT-3	1042-09-025	SAT	None
1G41-H0113 RIGID STRUT 10" N/A 305-655-109	F-A F3.STm	VT-3	1042-08-007	SAT	None
1G41-H0163 RIGID STRUT 10" N/A 305-655-111	F-A F3.STm	VT-3	1042-08-010	SAT	None
1G41-H0223 RIGID GUIDE 8" N/A 305-651-101	F-A F3.G	VT-3	1042-08-011	SAT	None
1G41-H0266 RIGID STRUT 10" N/A 305-655-113	F-A F3.ST	VT-3	1042-08-012	SAT	None
1G41-H0282 RIGID STRUT 10" N/A 305-651-103	F-A F3.ST	VT-3	1042-09-026	SAT	None
1G41-H0291 RIGID GUIDE 4" N/A 305-654-105	F-A F3.G	VT-3	1042-08-013	SAT	None
1G41-H0373 RIGID STRUT 10" N/A 305-655-115	F-A F3.STm	VT-3	1042-08-014	SAT	None
1G41-H0425 ANCHOR (WA) 10" N/A 305-654-102	F-A F3.A	VT-3	1042-09-030	SAT	None
1G41-H0425-WA INTEGRAL ATTACHMENT ANCHOR 10" N/A 305-654-102	D-Ac D1.20	VT-1	1042-09-029	SAT	None

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1G41-H0450 MECHANICAL SNUBBER (TANDEM) 12" N/A 305-654-101	F-A F3.SN	VT-3	VT-09-0590 & 96	SAT	None
1G42-H0005-WA INTEGRAL ATTACHMENT RIGID GUIDE 10" N/A 305-655-101	D-Ac D1.20	VT-3	1042-08-005	SAT	None
1G42-H0016 RIGID STRUT 10" N/A 305-655-101	F-A F3.ST	VT-3	1042-08-015	SAT	None
1N11-H0222-WA INTEGRAL ATTACHMENT RIGID GUIDE 28" N/A 305-605-110	C-Cc C3.20	VT-1	1042-09-048	SAT	None.
1N22-0062 @ 2" PIPE TO ELBOW 2" 160 305-121-101	X-B X10.11	VT-1	1042-09-042	SAT	None
1N22-0062 @ 2" PIPE TO ELBOW 2" 160 305-121-101	X-B X10.11	UT	0944-09-E034	NRI	None
1N22-0063 @ 2" ELBOW TO PIPE 2" 160 305-121-101	X-B X10.11	UT	0944-09-E035	NRI	None
1N22-0063 @ 2" ELBOW TO PIPE 2" 160 305-121-101	X-B X10.11	VT-1	1042-09-043	SAT	None
1N27-0025 20" X 20" X 14" TEE TO 20" PIPE 20" 120 305-082-104	C-F-2 C5.51	UT	0944-09-E039	NRI	None
1N27-0025A @ 20" X 20" X 14" TEE TO 14" X 12" REDUCER 14" 120 305-082-104	X-B X10.10	UT	0944-09-E040	NRI	Previously detected geometry noted at below recording levels.
1N27-P414-SP ANCHOR, PEN TO SHIELD BLDG (WA) N/A 305-082-104	F-A F1.A	VT-3	1042-09-049	SAT	None

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1N27-P414-WA P414 FLUED HEAD FITTING TO PROCESS PIPE ATTACH WLD 20" N/A 305-082-104	B-Kc B10.20	MT	0942-09A-009	ACC	None
1N27-P414-WA @ P414 FLUED HEAD FITTING TO PROCESS PIPE ATTACH WLD 20" N/A 305-082-104	X-E X10.20	UT	0944-09-E042	NRI	0° Exam, no relevant indications.
1N27-P414-WA @ P414 FLUED HEAD FITTING TO PROCESS PIPE ATTACH WLD 20" N/A 305-082-104	X-E X10.20	UT	0944-09-E043	NRI	Previous non-relevant Indications recorded at same sweep location and lower amplitude were observed at below the recording criteria and no longer recordable due to new wedge/angle used to perform the exam.
1P45-H0025 RIGID GUIDE 16" N/A 305-792-106	F-A F3.G	VT-3	1042-08-017	SAT	Notification 600507788 generated for the degraded coatings.
1P45-H0115 RIGID GUIDE 16" N/A 305-792-107	F-A F3.G	VT-3	1042-09-012	SAT	Notification 600521767 written to addressed rusted U-Bolt on the guide.
1P45-H0138 RIGID GUIDE 16" N/A 305-792-103	F-A F3.G	VT-3	1042-08-008	SAT	None
1P45-H0159 ANCHOR (WA) 24" N/A 305-792-104	F-A F3.A	VT-3	1042-09-035	SAT	Notification 600522690 generated to clean and re-paint hanger and attachment.
1P45-H0159-WA INTEGRAL ATTACHMENT ANCHOR 24" N/A 305-792-104	D-Ac D1.20	VT-1	1042-09-036	SAT	Notification 600522690 generated to clean & re-paint hanger and attachment.
1P45-H0357 RIGID STRUT (WA) 16" N/A 305-792-103	F-A F3.ST	VT-3	1042-09-031	EVAL	Notif 600521857 written for relevant operable indication due to strut having no free movement.
1P45-H0357-WA INTEGRAL ATTACHMENT RIGID STRUT 16" N/A 305-792-103	D-Ac D1.20	VT-1	1042-09-032	SAT	None
1P45-H0408 RIGID GUIDE 8" N/A 305-791-101	F-A F3.Gs	VT-3	1042-09-033	SAT	None

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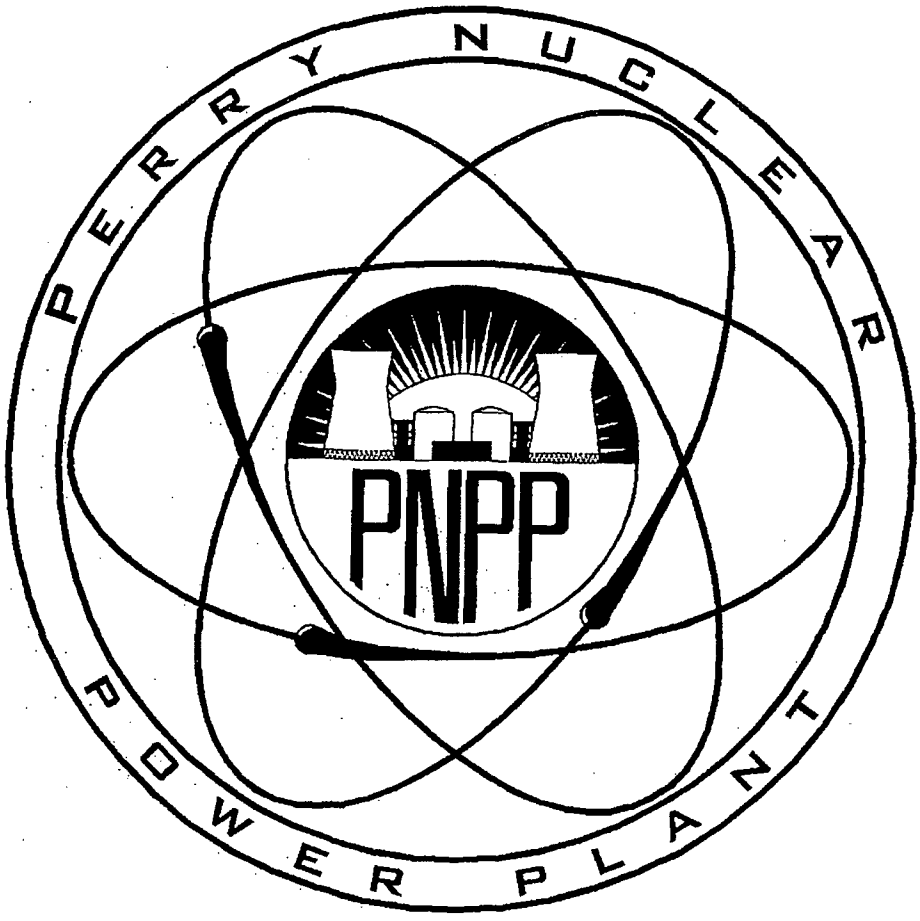
1P45-H0622 RIGID STRUT 8" N/A 305-792-109	F-A F3.ST	VT-3	1042-09-034	SAT	None
1P47-H0291 RIGID STRUT 6" N/A 305-002-111	F-A F3.ST	VT-3	1042-08-016	SAT	None
CLASS 1, PIPING PIPING-SYSTEM LEAKAGE TEST N/A N/A 305-NO-DWG	B-P B15.50	VT-2	1Q800-09-278	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 1, PUMPS PUMPS-SYSTEM LEAKAGE TEST N/A N/A 305-NO-DWG	B-P B15.60	VT-2	1Q800-09-279	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 1, VALVES VALVES-SYSTEM LEAKAGE TEST N/A N/A 305-NO-DWG	B-P B15.70	VT-2	1Q800-09-280	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 1, PR COMP REACTOR VESSEL-SYSTEM LEAKAGE TEST N/A N/A 305-NO-DWG	B-P B15.10	VT-2	1Q800-09-281	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 2, PIPING SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	C-H C7.30	VT-2	1Q800-09-282	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 2, PRESS VESS SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	C-H C7.10	VT-2	1Q800-09-283	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 2, PUMPS SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	C-H C7.50	VT-2	1Q800-09-284	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 2, VALVES SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	C-H C7.70	VT-2	1Q800-09-285	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 3, PR COMP SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	D-A D1.10	VT-2	1Q800-09-286	SAT	Pressure testing accomplished by various ISI Instructions.

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
CLASS 3, PR COMP SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	D-B D2.10	VT-2	1Q800-09-287	SAT	Pressure testing accomplished by various ISI Instructions.
CLASS 3, PR COMP SYSTEM PRESSURE TEST N/A N/A 305-NO-DWG	D-C D3.10	VT-2	1Q800-09-288	SAT	Pressure testing accomplished by various ISI Instructions.
1T23-EXTERIOR EXTERIOR EL 599-757 AZ 0-360 N/A N/A 305-503-EXT	E-A E1.11	GVIS	1042-09-024	SAT	Minor surface rust.
1T23-INTERIOR INTERIOR EL 574-757 AZ 0-360 N/A N/A 305-503-INT	E-A E1.11	GVIS	1042-09-075	SAT	Ctmt Integrity OK; CRs 09-51721 & 51967 initiated due to degraded coatings.
1T23-013-I INT EXCEPT ST & FILTER RM EL 642-690 AZ 0-90 (4%) N/A N/A 305-503-113	E-A E1.12	VT-3	1042-09-016	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
1T23-014-I INT EXCEPT FUEL STOR PIT EL 642-690 AZ 90-180 (3%) N/A N/A 305-503-114	E-A E1.12	VT-3	1042-09-017	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
1T23-015-I INTERIOR EL 642-690 AZ 180-270 (6%) N/A N/A 305-503-115	E-A E1.12	VT-3	1042-09-018	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
1T23-016-I INT EXCEPT STEAM TUNNEL EL 642-690 AZ 270-360 (5%) N/A N/A 305-503-116	E-A E1.12	VT-3	1042-09-019	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
1T23-017-I INT REFUEL FLOOR TO DOME EL 690-727 AZ 0-90 (4%) N/A N/A 305-503-119	E-A E1.12	VT-3	1042-09-020	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
1T23-018-I INT REFUEL FLOOR TO DOME EL 690-727 AZ 90-180 (4%) N/A N/A 305-503-120	E-A E1.12	VT-3	1042-09-021	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.
1T23-019-I INT REFUEL FLOOR TO DOME EL 690-727 AZ 180-270 (4%) N/A N/A 305-503-121	E-A E1.12	VT-3	1042-09-022	SAT	No structural degredation; CR 09-51721 generated for coatings degredation.

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

Table Notes:

1. Status codes are "SAT", "UNSAT" or "EVAL" for visual exams. For surface exams they are "ACC" for acceptable, "REJ" for rejectable and" INFO" for exams that require additional information. For ultrasonic exams they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications along with "SAT", "UNSAT" or "EVAL" for vendor UT datasheets.
2. The above exam listing is all the inservice examinations that were performed during Cycle 12 or RFO12 in accordance with Perry's Inservice Examination Plan (ISEP).



First Energy Nuclear Operating Company

Perry Nuclear Power Plant

ISI Summary Report No. P0059-0012
Second Interval, Third Period, Second Outage
(RFO12)
Cycle 12 and RFO12 Preservice Examinations

Prepared by: _____ Date: 7/8/09
ISI Engineer

Reviewed by: _____ Date: 7/9/09
Authorized Nuclear Inservice Inspector

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-N8-B RPV HEAD SPRAY NOZZLE N8 TO FLANGE BOLTING N/A 305-006-103	B-G-2 B7.10	VT-1	1Q800-09-259	SAT	Examined 3 studs & 8 nuts which were replaced on this bolted connection, heat numbers D145 and TBX for studs and nuts, respectively.
1B21-F0041A-IS SRV, INTERNAL SURFACE (GROUPING NUMBER I) N/A 305-605-101	B-M-2 B12.50	VT-3	1042-09-011	SAT	Examination of replacement safety relief valve, Ser No. 160884.
1B21-F041A-B SRV BOLTING, 12 EACH N/A 305-605-101	B-G-2 B7.50	VT-1	1042-09-055	SAT	Examined 12 replacement studs, nuts and washers, heat number 590A.
1B21-F041C-B SRV BOLTING, 12 EACH N/A 305-605-103	B-G-2 B7.50	VT-1	1042-09-054	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
1B21-F041E-B SRV BOLTING, 12 EACH N/A 305-605-101	B-G-2 B7.50	VT-1	1042-09-056	SAT	Examined 12 replacement studs, nuts and washers, heat number OG84.
1B21-F041G-B SRV BOLTING, 12 EACH N/A 305-605-103	B-G-2 B7.50	VT-1	1042-09-058	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
1B21-F047C-B SRV BOLTING, 12 EACH N/A 305-605-103	B-G-2 B7.50	VT-1	1042-09-057	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
1B21-F047G-B SRV BOLTING, 12 EACH N/A 305-605-103	B-G-2 B7.50	VT-1	1042-09-059	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
1B21-F051A-B SRV BOLTING, 12 EACH N/A 305-605-101	B-G-2 B7.50	VT-1	1042-09-060	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
1B21-F051C-B SRV BOLTING, 12 EACH N/A 305-605-103	B-G-2 B7.50	VT-1	1042-09-061	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.
1B21-F051G-B SRV BOLTING, 12 EACH N/A 305-605-103	B-G-2 B7.50	VT-1	1042-09-062	SAT	Examined 12 replacement studs, nuts and washers, heat number K745.

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

ID of Component Examined Description of Component Size - Sched. - ISI Dwg. No.	ASME Category ASME Item No.	Exam Method	Exam Report No.	Status	Remarks
1B33-S375A HYDRAULIC SNUBBER, PUMP (WA) MPL 1B33G7070A N/A 305-602-102	F-A F1.40	VT-3	VT-09-0845	SAT	Pre-service exam of replacement snubber Ser No. 059.
1E12-H0118 ANCHOR (WA) N/A 305-642-119	F-A F2.A	VT-3	1042-09-066	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
1E12-H0293 HYDRAULIC SNUBBER (TANDEM) N/A 305-641-101	F-A F2.SN	VT-3	VT-09-0847	SAT	Pre-service exam of replacement Snubber per ECP-04-0270-01, order 200199137.
1E12-H0309 HYDRAULIC SNUBBER N/A 305-642-105	F-A F2.SN	VT-3	VT-09-0822	SAT	Pre-service exam of replacement Snubber per ECP-04-0270-01, order 200199137.
1E12-H0364 RIGID STRUT N/A 305-642-114	F-A F2.ST	VT-3	1042-09-069	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199137.
1E12-H0790 HYDRAULIC SNUBBER & RIGID STRUT N/A 305-641-105	F-A F2.SN	VT-3	1042-09-071	SAT	Pre-service exam of new support for ECP 04-0270-01, order 200199139.
1E21-0044A 14" PIPE TO 14" X 10" REDUCING TEE 40 305-705-105	C-F-2 C5.51	UT	0944-09-E052	GEO	Geometric indication (root) recorded. Pre-service exam due to additional weld added to ISI population from ADHR mod, ECP 04-0270-01, order 200199135.
1E21-H0024 RIGID STRUT N/A 305-705-102	F-A F2.ST	VT-3	1042-08A-001	SAT	Pre-service exam in support of ECP 04-0279-01.
1E51-0001-B 6" FLANGE BOLTING N/A 305-631-108	B-G-2 B7.50	VT-1	1Q800-09-260	SAT	Pre-service exam of 1 replacement nut on this bolted connection, heat number TBX.
1E51-H0072 HYDRAULIC SNUBBER N/A 305-631-108	F-A F1.SN	VT-3	VT-09-0874	SAT	Pre-service exam of replacement snubber, Ser No. 30800103/009.
1N22-H0148 MECHANICAL SNUBBER N/A 305-121-101	F-A F1.SN	VT-3	VT-09-0815	SAT	Pre-service exam of replacement snubber Ser. No. 24405.

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

Table Notes:

1. Status codes are "SAT", "UNSAT" or "EVAL" for visual exams. For ultrasonic exams they are "IND" for indication, "GEO" for geometry, and "NRI" for no recordable indications.
2. The above exam listing is all the preservice exams that were performed during Cycle 12 or RFO12 due to repair/replacement activities.

APPENDIX B

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

INSERVICE INSPECTION SUMMARY REPORT

FOR

PERRY NUCLEAR POWER PLANT

(PNPP)

UNIT 1

1B13-053

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 12/14/07
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200283212 (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 9/28/08

4. Identification of System: Reactor and Internals 1B13

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) ,1974 Edition
   winter 19 75 Addenda Code Case(s) *N207, N272, 1361-2, 1644-4, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition; W 1975 Addenda; * Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition; none Addenda; none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , ____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
piping system	General Electricr	1B13	64077	N/A	1984	Replacement	1985

7. Description of Work: Installed eight new capscrews and slotted washers at CRDM flange at location 42-31 Heat number 255A.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 08

Date 14 Dec., 20 07 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on Dec 20, 20 07 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 12/20, 20 07 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B13-054

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5/15/09
10 Center Road, Perry, Ohio 44081 Sheet 1 of 43

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

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 2/28/2011

4. Identification of System: 1B13 Reactor and Internals

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 1974 Edition
NAME/SECTION/DIVISION/CLASS

WINTER 19 75 Addenda Code Case(s) N207, 1361-2, 1728, 1644-4, N272

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda N/A Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition NONE Addenda N/A Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , N/A 19 N/A Addenda N/A
Code Case(s)

(e) Design Responsibilities First Energy Corp

6. Identification of Components Repaired, Modified, or Replacement Components

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	1B13	64077	1B13D008	1984	REPLACEMENT	YES

7. Description of Work: Replaced 20 control rod drives and 1" cap screws see attachment for details.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1025 psi Test Temperature 123 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 2011

Date 15 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on May 27, 2009 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/27, 2009 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1. Owner: FIRSTENERGY CORP
10 CENTER ROAD, PERRY, OH 44081

2. Plant: Perry Nuclear Power Plant (PNPP)
10 Center Road, Perry, Ohio 44081
Unit one
WO # See below.
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY NUCLEAR OPERATING COMPANY (PNPP)
10 Center Road, Perry, Ohio 44081
Type Code Symbol Stamp NR
Authorization No. 33
Expiration Date 9/28/2011

4. Identification of System: 1B13 REACTOR AND INTERNALS

5. (a) Applicable Construction Code: ASME SECTION III NB 1974 Edition
WINTER 19 75 Addenda Code Case(s) N207,1361-2,1728,1644-4,N272

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 19 89 , 19 NO Addenda

6. Identification of Components Repaired, Modified, or Replacement Components

WO NUMBER	CORE LOCATION	NEW CRDM S/N	NUMBER OF CAPSCREWS REPLACED	HT NUMBERS OF NEW CAPSCREWS
200316015	26-47	A2257	8	255A
200316011	10-23	A3997	8	255A
200316023	30-27	A4006	8	255A
200316022	22-31	A4115	8	255A
200316018	30-35	A4216	8	255A
200316014	06-47	A4250	8	255A
200285923	42-31	A4483	8	255A
200316016	50-47	A4537	8	255A
200316004	10-47	A4582	8	255A
200316010	14-27	A4647	8	255A
200316024	30-23	A4676	8	255A
200319782	34-55	A5237	8	255A
200319801	26-31	A5385	8	255A
200316008	10-39	A5414	8	255A
200352463	10-11	A5468	8	255A
200316017	14-35	A5572	8	255A
200316019	18-31	A5583	8	255A
200316026	42-07	A5695	8	255A
200316025	46-11	A5703	8	255A
200319788	18-35	A5720	8	255A

40f43

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

MPT 1720

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

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

2. Identification-Certificate Holder's Serial No. of Part A2257 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 8/26/ 19 81 Signed GE, NEPD-WMD By J. Strudemire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/26/ 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 8/26/ 19 81

E. L. Merrill
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks".

09215

Sheet 2 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* 17240

As required by the Provision of the ASME Code Rules, Section III, Div. 1 5 OF 43

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

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

2. Identification-Certificate Holder's Serial No. of Part A2257 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

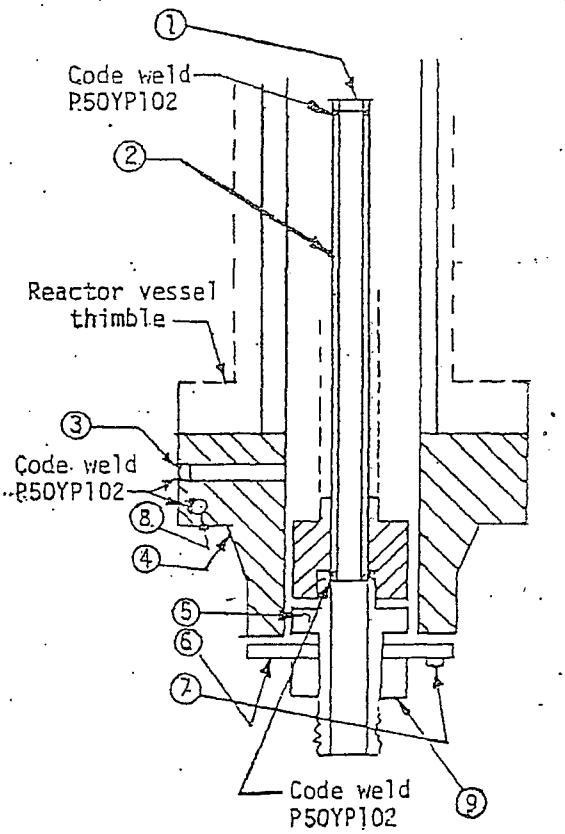
4. Flange 719D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia. 00219

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

MPA 1724D

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

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

2. Identification-Certificate Holder's Serial No. of Part A3997 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 8/26/ 19 81 Signed GE, NEPD-WMD By J. C. Stroudemire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/26/ 19 81 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 8/26/ 19 81

E. E. Sheriff
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in Item 3, "Remarks".

00338

(10/77) This form (E00010) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Sheet 2 of 2 9 OF 43 17240

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A3997 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

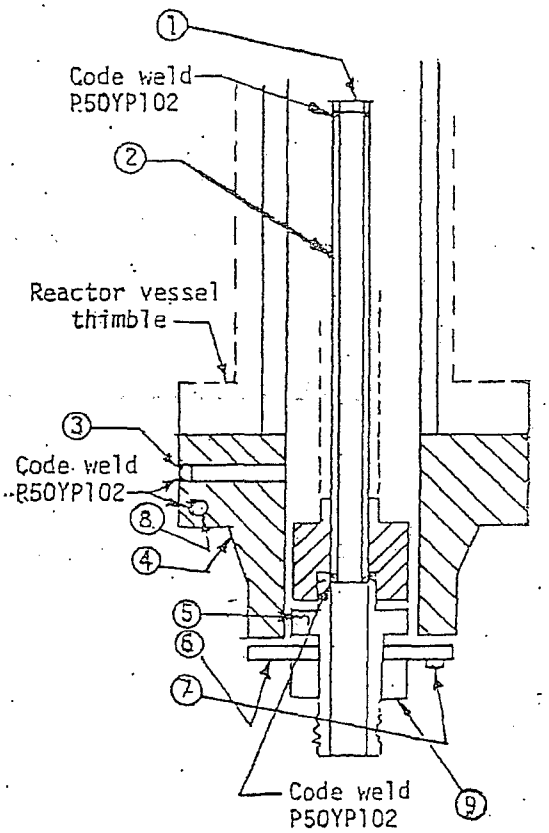
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

00089

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4006 Nat'l Bd. No.

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

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

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

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1320 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

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

Date 7/20 19 81 Signed GE, NEPD-WMD-QA By J. Ettredummie
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/20 19 81, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/20 19 81

E. J. Merrill
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks"

00594

Sheet 2 of 2 90F43,771 16971

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4006 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

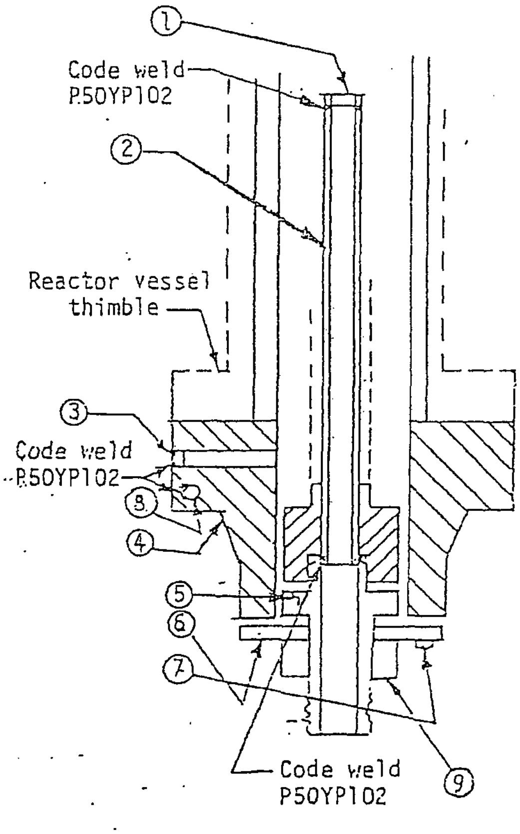
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00535

 2819

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

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

Pof 43

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

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

2. Identification-Certificate Holder's Serial No. of Part A4115 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 2/24 19 83 Signed GE, NEPD-WMD By J. Ostrudenmaier
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 2/24 19 83 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 2/24 19 83

E. L. Sherrill
Inspector's Signature

Commissions N.C. 723, PA.WC1766, OH10 02033
National Board, State, Province and No.

*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 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3, "Remarks".

(10/77)

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

2819
11 of 43

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

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

2. Identification-Certificate Holder's Serial No. of Part A4115 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

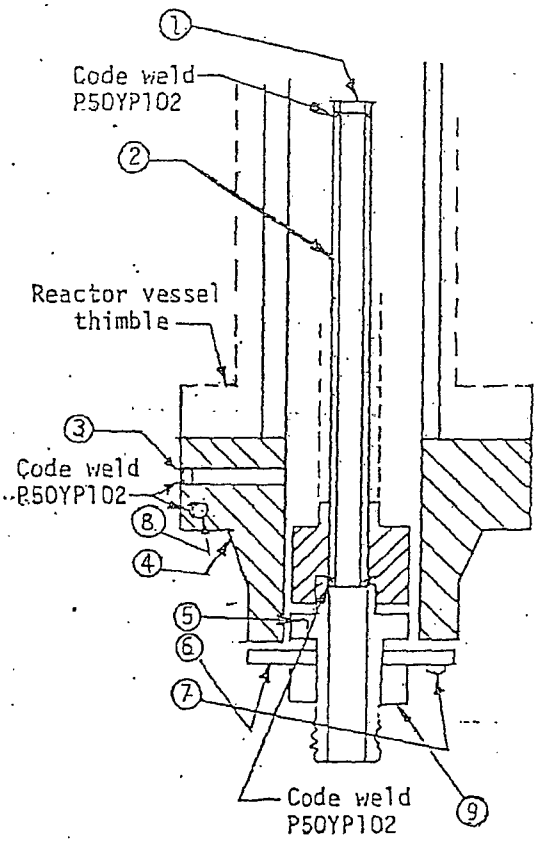
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

9. Nut 137C5934P1
XM-19 SA479
1.30 thick x 2.62 dia. 12034

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

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4216 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 6/23 19 81 Signed GE, NEPD-WMD By J. Stoudenmire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 6/23 19 81, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 6/23 19 81

W. J. Stevenson Commissions N.C. 687, PA WC2711
Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks".

00218

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4216 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

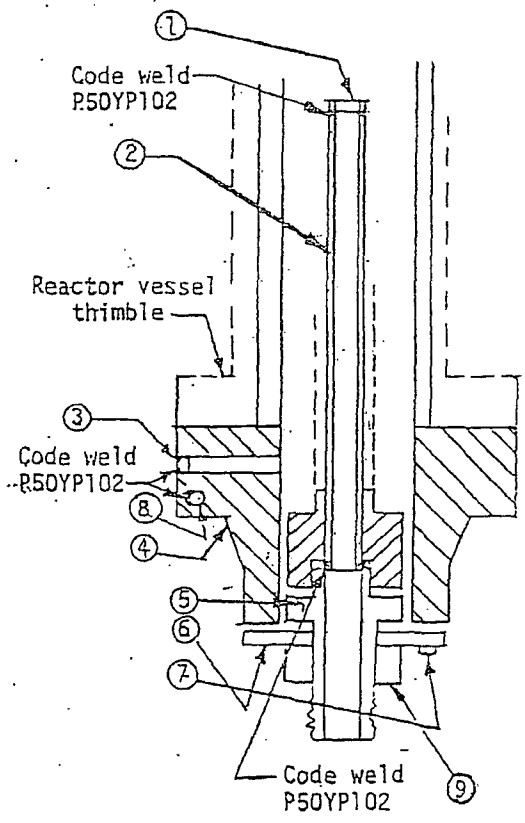
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00219

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

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4250 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J. E. Strudenmire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/23 19 81

Inspector's Signature

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

00849

*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 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

15 of 43

Sheet 2 of 2

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

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4250 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

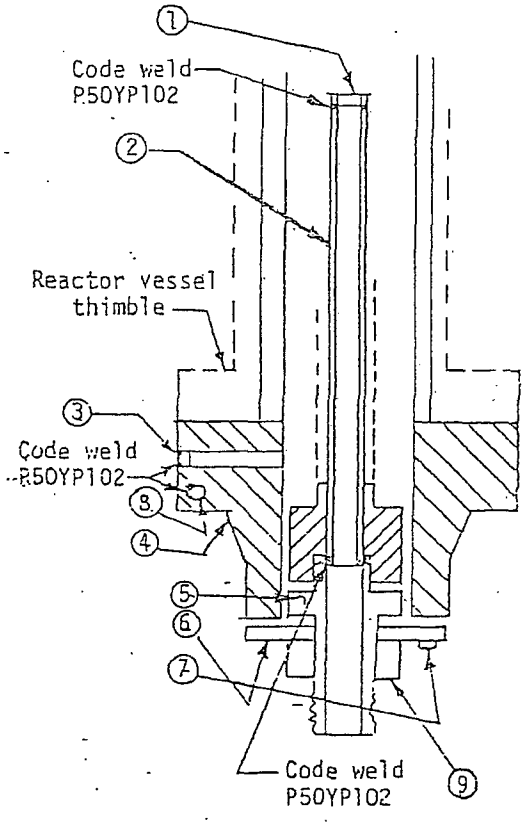
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00850

 16 OF 43 1/9/77

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4483 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J. Stoudenmire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 7/23 19 81

E. J. Shemill
Inspector's Signature

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

00879

*Supplementary sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks"

Sheet 2 of 2

16477
17 of 43

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4483 Nat'l Bd. No.

(a) Constructed According to Drawing No. 768E534GQ01 Drawing Prepared by D. L. Peterson

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

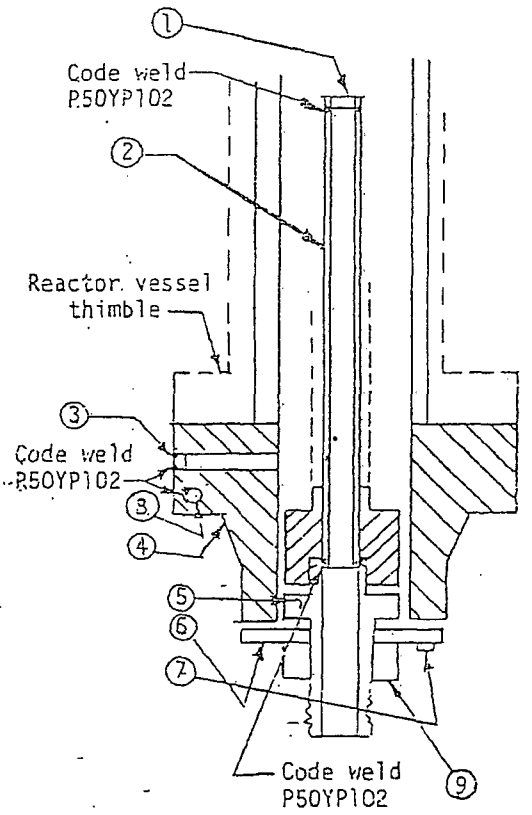
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00880

B13 NR 16582 Sheet 1 of 2

NR# 16582

18 of 43

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

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

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

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

2. Identification: Certificate Holder's Serial No. of Part A4537 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

12/30 19 80 Signed GE, NEPD-WMD-QA By
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMD-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

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 12/30 19 80 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 12/30 19 80

Inspector's Signature Commissions NC 779, PA WC2L60, OHIO
National Board, State, Province and No.

00481

*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 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3. "Remarks"

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Sheet 2 of 2

MRR 16552 19 OF 43

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4537 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

(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

2. Indicator Pipe 166B9313PT
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

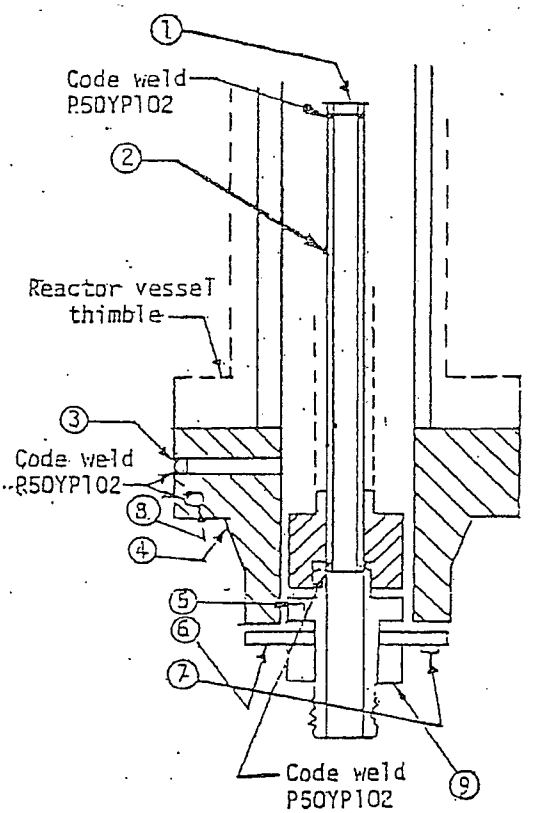
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

09462

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

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4582 Nat'l Bd. No. ____

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

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

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

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

* Total number of sheets - 2

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

Date 8/26/ 19 81 Signed GE, NEPD-WMD (NPT Certificate Holder) By [signature]

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/26/ 19 81, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 8/26/ 19 81

[signature] Inspector's Signature

Commissions N.C. 723, PA. WC1766, OHIO 473
National Board, State, Province and No.

*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 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

Sheet 2 of 2 21 of 43

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

17240

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

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

2. Identification-Certificate Holder's Serial No. of Part A4582 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

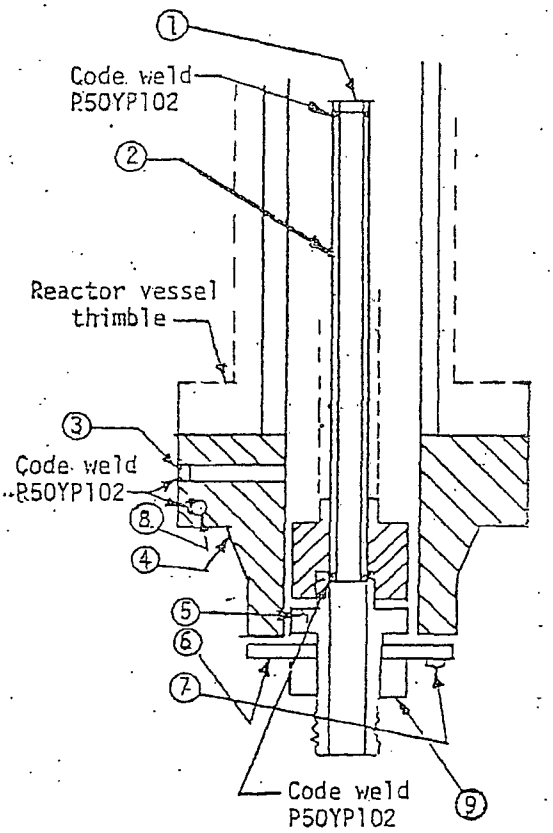
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00474

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4647 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J E Hendenmuir
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/23 19 81

E F Hegrill
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks"

00714

23 of 43
10977

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A4647 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

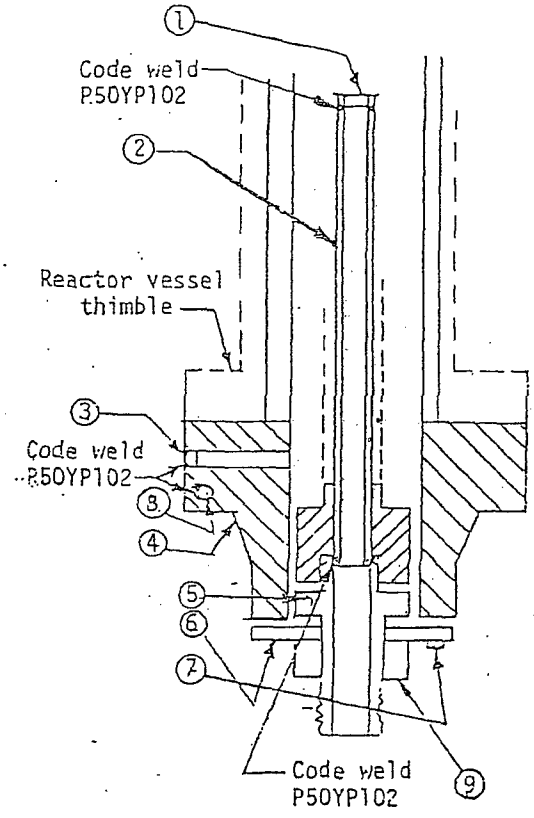
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00715

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

NR#1724P

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

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

2. Identification-Certificate Holder's Serial No. of Part A4676 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

7/23 19 81 Signed GE, NEPD-WMD-QA By J. Stoudenmire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at GE, NEPD-WMD-QA, Castle Hayne Rd., Wilmington, N.C.
22A5536, Rev. 2

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 7/23 19 81

E. L. Stowell
Inspector's Signature

Commissions N.C. 723, PA.WC1766, OHIO
National Board, State, Province and No. 00518

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

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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

17240

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

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

2. Identification-Certificate Holder's Serial No. of Part A4676 Nat'l Bd. No.

(a) Constructed According to Drawing No. 768E534GD01 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 N207 Class 1

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

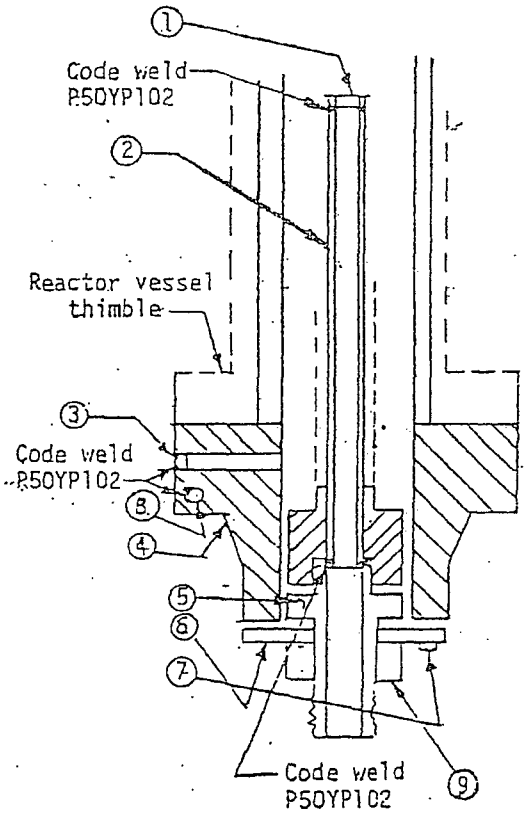
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A5237 Nat'l Bd. No.

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

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

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

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1820 psi.
(Brief description of service for which component was designed)
* Total number of sheets - 2

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

Date 8/31 19 81 Signed GE, NEPD-WMD By [signature]
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 8/31 19 81

[signature] Commissions N.C. 723, PA.WC1766, OHIO
Inspector's Signature — National Board, State, Province and No.

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

00728

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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

17240

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

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

2. Identification-Certificate Holder's Serial No. of Part A5237 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

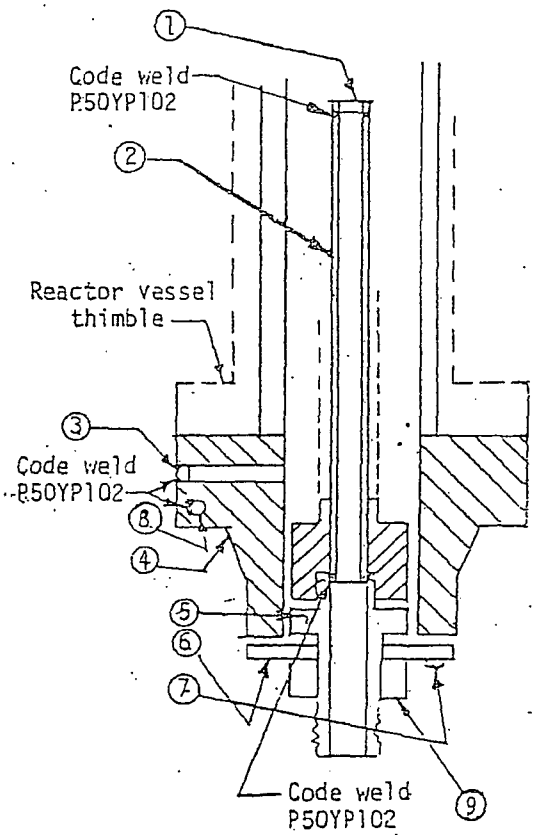
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 11485122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00729

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

MRT 1740

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

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

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

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

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

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

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

* Total number of sheets - 2

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

Date 8/31 19 81 Signed GE, NEPD-WMD By J. E. Houdeshell
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 8/31 19 81

E. R. Sherrill
Inspector's Signature

Commissions N.C. 723, PA WC1766, OHIO
National Board, State, Province and No. 00743

*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 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

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

17240

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

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

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

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

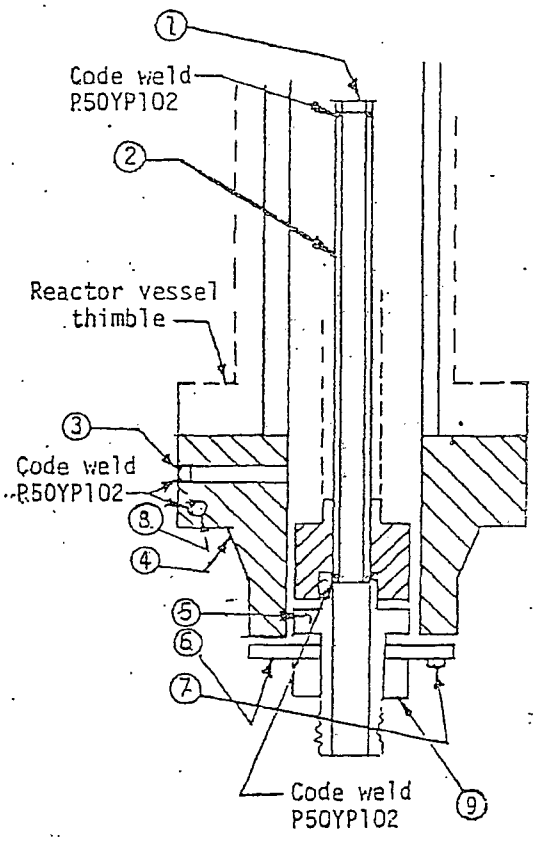
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00744

 30645 16977

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

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A5414 Nat'l Bd. No.

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

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

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

3. Remarks: Standard part for use with Reactor. Hydrostatically tested at 1320 psi.
(Brief description of service for which component was designed)

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By [signature]
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/23 19 81

[signature] Commissions N.C. 723, PA.WC1766, OHIO
Inspector's Signature National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks"

00474

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Sheet 2 of 2

1697 9

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

3 of 43

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

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

2. Identification-Certificate Holder's Serial No. of Part A5414 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

(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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

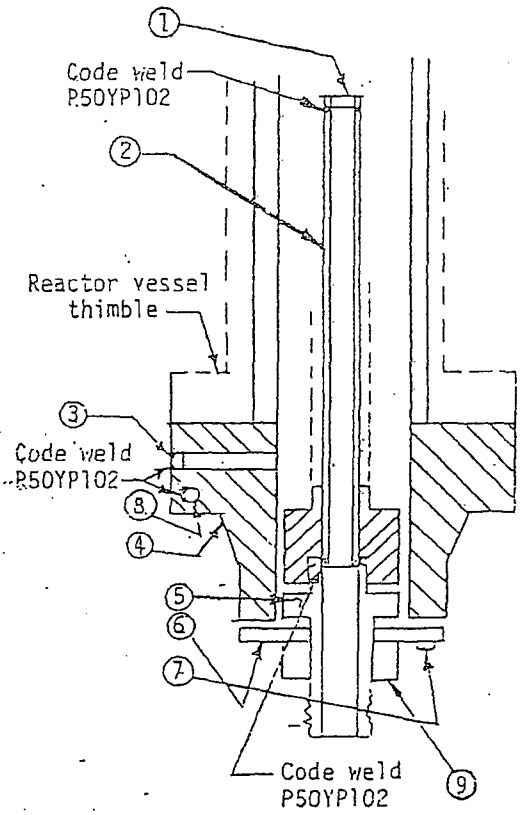
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00475

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

32 of 43

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

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

2. Identification-Certificate Holder's Serial No. of Part A5468 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 8/29 19 81 Signed GE, NEPD-WMD By J. Ettrudenmuse
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/29 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 8/29 19 81

E R Sherrill
Inspector's Signature

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

00833

* Supplementary sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3, "Remarks".

Sheet 2 of 2

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* 33 of 43

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A5468 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

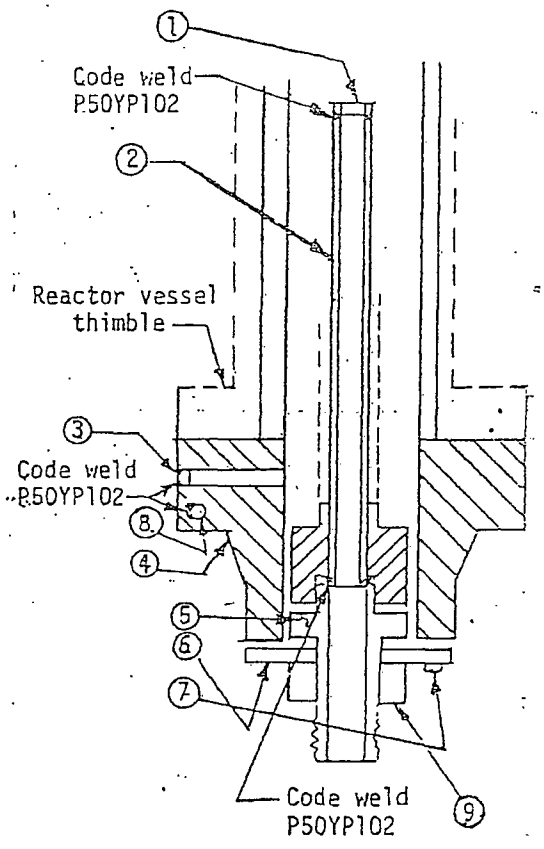
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00834

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

34 of 43

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

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

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

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

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

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

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

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J. Strudemire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 7/23 19 81

E. L. Stearns
Inspector's Signature

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

00055

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

Sheet 2 of 2

16917

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

350f43

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

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

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

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.055 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.872 OD

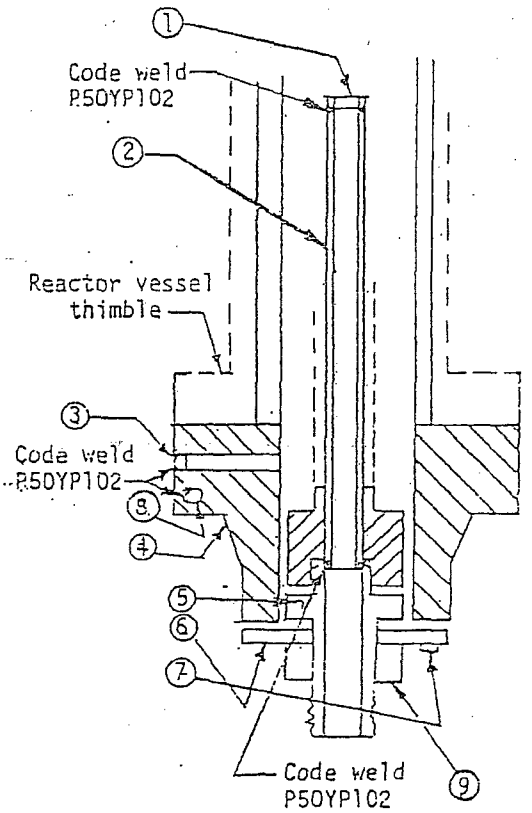
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00056

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

36 of 43
NPT 1245

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

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

2. Identification-Certificate Holder's Serial No. of Part A5583 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J. Stoudenmire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/23 1981, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 7/23 19 81

W. J. Stoelzman
Inspector's Signature

Commissions N.C. 687, PA.WC2711
National Board, State, Province and No.

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

00608

(10/77)

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

Sheet 2 of 2 37 OF 43

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

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

17240

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

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

2. Identification-Certificate Holder's Serial No. of Part A5583 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

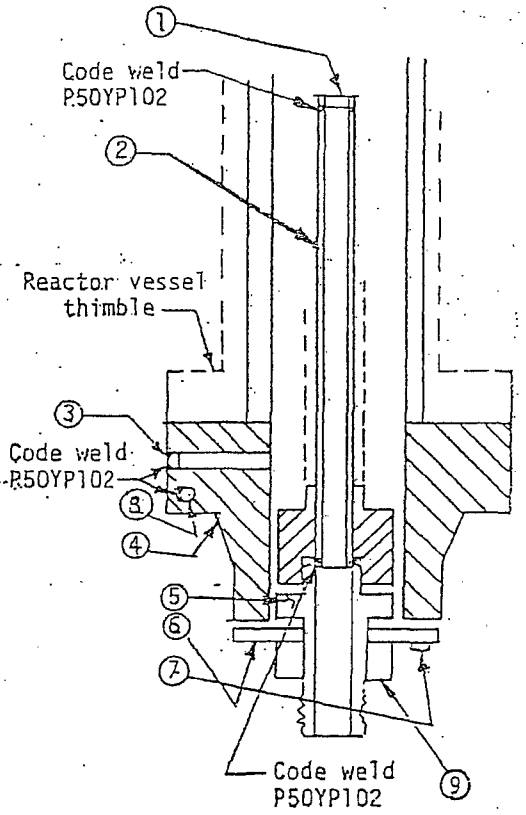
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00609

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* 38 of 43

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A5695 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 8/31 19 81 Signed GE, NEPD-WMD (NPT Certificate Holder) By [signature]

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 8/31 1981 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 8/31 19 81

[signature] Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 3 "Remarks".

00293

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

17240

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

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

2. Identification-Certificate Holder's Serial No. of Part A5695 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

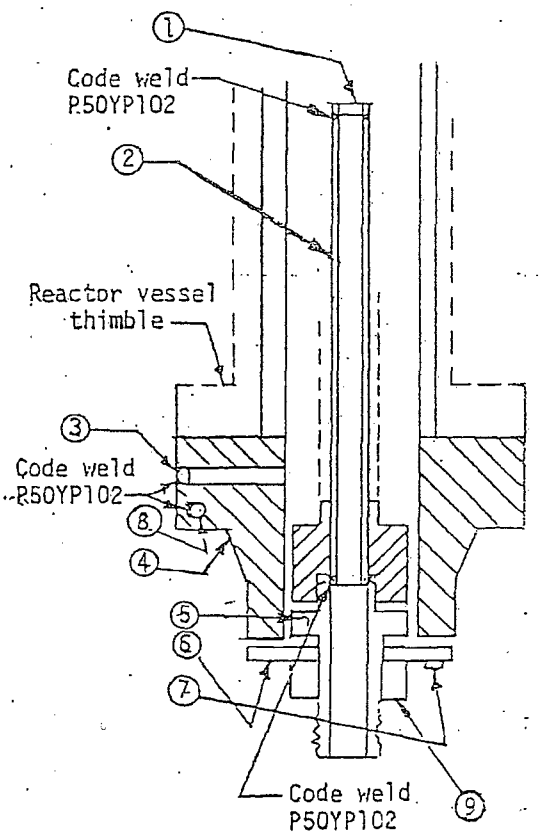
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00294

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

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

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

2. Identification-Certificate Holder's Serial No. of Part A5703 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 7/23 19 81 Signed GE, NEPD-WMD-QA By J. Stredenmeier
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 7/23 19 81

E. E. Sherrill
Inspector's Signature

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

*If sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-2 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 100

09414

Sheet 2 of 2 1697

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 41 of 43

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

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

2. Identification-Certificate Holder's Serial No. of Part A5703 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

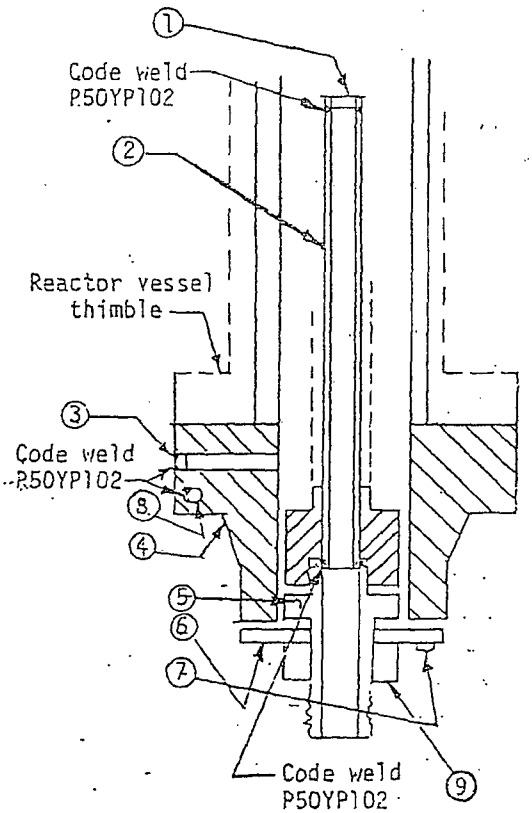
4. Flange 9190610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID.

7. Cap Screw 117C4516P2
SA193-B6
6 ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00415

 1697.

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

42 OF 43

1. (a) Manufactured by General Electric Company, Castle Hayne Rd., Wilmington, N.C.
(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 A5720 Nat'l Bd. No.

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

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

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

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

* Total number of sheets - 2

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

Date 7/7 19 81 Signed GE, NEPD-WMD By J. E. Stoudenmire
(NPT Certificate Holder)

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

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

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

CERTIFICATE OF SHOP INSPECTION

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

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

Date 7/7 19 81

E. E. Sherrill
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 in item 1, "Remarks".

00384

Sheet 2 of 2 16911

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provision of the ASME Code Rules, Section III, Div. 1 430412

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

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

2. Identification-Certificate Holder's Serial No. of Part A5720 Nat'l Bd. No.

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

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

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

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

2. Indicator Pipe 166B9313P1
SA312-TP316
3/4 sch 40-seamless pipe
0.113 wall thickness
1.065 max. dia.

3. Plug 159A1176P1
SA182-F304
1/4 thick x 0.812 OD

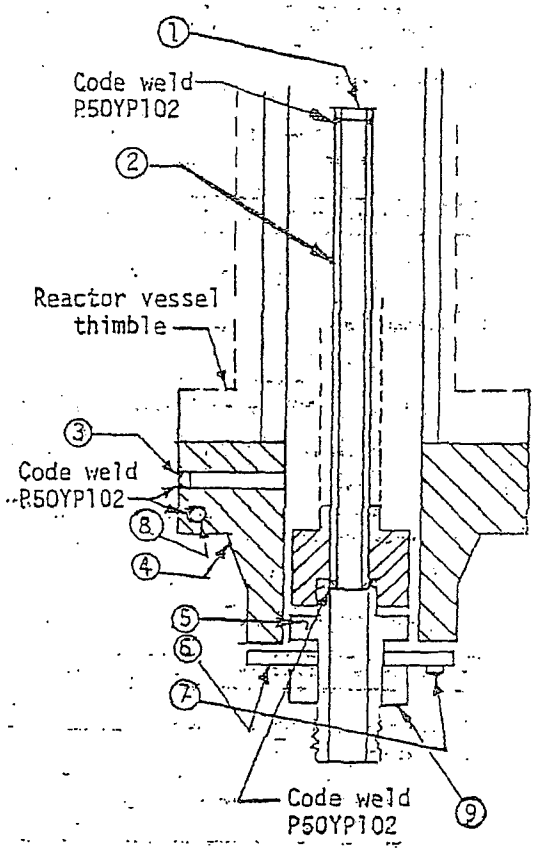
4. Flange 919D610P1 (719E474)
SA182-F304
3.37 thick x 9 5/8 OD
neck 1 1/16 thick x 5.0 OD
2.875 ID

5. Base 137C5311P1
XM-19 ASME SA479
3.0 OD x .884 ID

6. Ring Flange 114B5122P2
SA182-F304
1" thick x 5.0 OD x 1.75 ID

7. Cap Screw 117C4516P2
SA193-B6
6-ea. 1/2 dia. on 4 1/8 bolt circle

8. Plug 175A7961P1
SA182-F304
0.38 thick x 1.307 dia.



CONTROL ROD DRIVE
DWG - 768E534

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

00385

1B21,- 385

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 10/24/07
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 ECP 06-0022
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9/28/08

4. Identification of System: NUCLEAR BOILER B21 / INSTRUMENT AIR P57

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 and 3 (NAME/SECTION/DIVISION/CLASS) ,1974 Edition
Winter 19 75 Addenda .Code Case(s) *N3,N32-4,N71-6,N71-9,N224-1,N225,N241,N242 N249,N272,N282,N413,1644-5,1728.

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W75 (Addenda) * (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) NONE (Addenda) N/A (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 95 , _____ 19 N/A Addenda N/A (Code Case(s))

(e) Design Responsibilities First Energy Corp

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping system	Johnson Controls	1P57-0043-F	033	N/A	1985	REPAIR	YES
Piping system	Johnson Controls	1B21-0070-F	001	N/A	1985	REPAIR	YES
Piping system	PULLMAN POWER	1P57	110	N/A	1985	REPAIR	YES
Piping system	PULLMAN POWER	1B21	109	N/A	1985	REPAIR	YES

7. Description of Work: THE DESIGN DOCUMENT FOR THIS RERATING IS ECP-06-0022
THIS WAS A DOCUMENT ONLY DESIGN CHANGE WITH NO FIELD WORK. SEE REMARKS SECTION.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: The design pressure of portions of the B21 and P57 air supply system downstream of the 1P57F00524A/B valves to the air accumulator tanks is increased from 200 psig to 210 psig.

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 24 Oct., 20 07 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on Nov. 5, 20 07 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, 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 11/5, 20 07 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-405

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-6-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200280561 and 54.9
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 97-614263-33 WITH SNUBBER S/N 30800103/006
ALSO INSTALLED FWD BRACKET ASSY HT# N2037-G/N4312. PLANT ID 1B21H453.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 6 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 7, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/7, 20 09 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-406

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-11-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200280560
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 00-614813-002 WITH SNUBBER S/N 02615163/002
   ALSO INSTALLED A LOAD STUD HT# MSP AND 2 JAM NUTS C OF C 1894, PLANT ID 1B21H452.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 11 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 12, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/12, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1B21-407

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-12-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200280563
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 00-614883-001 WITH SNUBBER S/N 30700524/016
   ALSO INSTALLED FORWARD BRACKETT ASSY HT# N2089/N1699. PLANT ID 1B21H472.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 12 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 13, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/13, 20 09 Signed *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1B21-408

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-6-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200280557
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 97-614263-30 WITH SNUBBER S/N 30800103/008
ALSO INSTALLED FWD BRACKET ASSY-HT# N2038/N4312. PLANT ID 1B21H447.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 6 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on May 7, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/7, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1B21-409

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-6-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200280562
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 97-614263-27 WITH SNUBBER S/N 30800103/002
   ALSO INSTALLED FWD BRACKET ASSY HT# N2037-G/N4312. PLANT ID 1B21H462.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 6 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 7, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/7, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-410

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-5-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200280564
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 97-614263-25 WITH SNUBBER S/N 30800103/007 PLANT ID 1B21H490.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 6 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 7, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/7, 20 09 Signed _____ *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1B21 – 411

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-6-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200280555
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBERS S/N 97-614263-28 AND 97-614263-29 WITH SNUBBERS S/N 30800103/005 AND 01615123/002. PLANT ID 1B21H446.

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

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

PNPP.No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 6 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) _____ (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 12, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/12, 2009 Signed _____ (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-412

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-6-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200280565
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5, 1728, N413

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 97-614263-26 WITH SNUBBER S/N 30800103/010
   ALSO INSTALLED FWD BRACKET ASSY HT# N2037-G/N4312. PLANT ID 1B21H491.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 6 MAY, 20 09 Signed FENOC-PNPP. _____ 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 7, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/7, 20 09 Signed _____ Commissions NB 9330 "N" "I" "A" Ohio Comm.
(inspector) *(National Board (include endorsements), and jurisdiction, and no.)*

1B21-413

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200174644
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F41E	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160887 WITH VALVE S/N 160850.
SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# 0G84 AND 12 HYDRA NUTS 1-5/8"-8 HT# 590A.

16 STUDS 1"-8 (15 HT# 2C05 AND 1 HT#0G81), 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of compelency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1821-413 SHEET 2 OF 2

MF 6743/6725

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

1. Manufactured by G. Dikkers & Co. N.V. Hengelo (O) The Netherlands (Name and Address of Manufacturer)
2. Manufactured for Perry I (Name and Address of Purchaser or Owner)
3. Location of Installation North Perry, Ohio (Name and Address)
4. ---------- (CRN) G471-6/125.04.04 (Drawing No.) 29 (Nat'L Brd. No.) 1978 (Year Built)
5. Valve (Model No., Series No.) G471 Identifying Nos. 160850 (Manufacturers' Serial No.)
   Type safety/relief (Safety, Safety Relief, Pilot, Power Actuated)
   Orifice Size 4.84" inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1165 Rated Temperature 585 °F
   Stamped Capacity 905732 (Sat Steam) lbs/hr @ 0 % Overpressure Blowdown (PSIG) 40.5
   Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	~~15.04.8 s/n 1~~	~~SA 352 LCB~~
Bonnet or Yoke	~~11.12.8 s/n 3~~	~~SA 352 LCB~~
Support Rods		
Nozzle	~~AEU 038~~	~~SA 350 LF2~~
Disc	~~55.52.7 s/n 2A~~	~~SA 351 CF3A~~
Spring Washers	211653 s/n 20	45 Cr Mo V 67
Adjusting Screw	AFU 118 + 019	SA 182 F316
Spindle	AJE 005	A 564-74 type 630 cond. H1100
Spring		
Bolting	AJZ, AJR, AKA, AJJ, ALR,	SA 193-B7/SA 194-7/SA 194-2H
Other Pieces	AUY, AHR, AJM, AJL	
Liner	56.04.8 s/n 1	SA 351 CF3A
Cover	55.46.7 s/n 6	SA 351 CF8M
Vent pipe	AFW 001	SA 105
Flanges	AFV 074 + 102	SA 105

Max. outside diam. valve body: 476 mm (18.74 inch)
Max. ourside length valve : 1645 mm (64.76 inch)

RECEIVED
JAN 11 1979
PNPP-SO/DC

* 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.

(1/76) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

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

Code Case No. .....

Date 10-11-78 Signed C. Dikkers & Co. N.V. (Manufacturer) by W.H. Willems

Our ASME Certificate of Authorization No. 1806 to use the NV (NV)

symbol expires 1st July, 1980 (Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

PE State California/Illinois Reg. No. M14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Kemper Ins. of Long Grove, Ill. 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 constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10-11 19 78

Signed Lee Goteau (Inspector) Commissions NB 4456 (Nat'l. Bd., State Prov. and No.)

1B21-414

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200174646
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F41C	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160885 WITH VALVE S/N 160866.
SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,
16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1821-414 SHEET 2 OF 2

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*

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

1. Manufactured by G. Dikkers & Co. NV. Hengelo (O) The Netherlands
(Name and Address of N Certificate Holder)
2. Manufactured for General Electric, San Jose, California
(Name and Address of Purchaser or Owner)
3. Location of Installation Perry II North Perry Ohio
(Name and Address)
4. (CRN) G 471-6/125.04.03 rev. 6 (Drawing No.) 65 (Nat'l. Brd. No.) 1978 (Year Built)
5. Valve G471 (Model No., Series No.) Identifying Nos. 160866 (N Certificate Holder's Serial No.)
Type Safety/Relief
Safety; Safety Relief; Pilot; Power Actuated
Orifice Size 4,84 inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1165 Rated Temperature 585 °F
Stamped Capacity 905739 lbs/hr Sat. Steam @ 3 % Overpressure Blowdown (PSIG) 108.08
Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure-Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
* Body	11.12.8 sn 1	SA 352 LCB
* Bonnet or Yoke	14.32.8 sn 1	SA 352 LCB
Support Rods		
Nozzle	AJW 011	SA 350 LF2
Disc	53.04.8 2B	SA 351 CF3A
Spring Washers	26.30.95-44	45 Cr Mo V 67.
Adjusting Screw	AFU 123 AME 004	SA 182 F 316
Spindle	AJE 048	A 564-74 type 630 cond. H1100
Spring		
Bolting	AYE/ANY/AVS/ALR/ AWZ/AMR/AJM/AJL/AJJ	SA 193-B7/SA 194-7/SA 194-2H
~~Other Pieces~~		
* Liner	54.18.8 sn 1	SA 351 CF3A
Cover	53.28.8 sn 10	SA 351 CF8M
Vent. Pipe	AKE 059	SA 105
Flanges	AKF 019 AFV 105	SA 105

Max. outside diam. valve body 481 mm (18,94)"

Max. outside length valve 1645 mm (64.76)"

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

(10/77) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda Sum '76, (Date)
Code Case No. N.A.

Date 81-06-25 Signed G. Dikkers & Co NV by [signature]
(N 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[1] Boyd P. Brooks
PE State California Reg. No. 13655
tress report certified by[1] Robert L. Weiss
PE State California/Illinois Reg. No. M 14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio, PA and employed by Kemper Ins.
of Long Grove III have inspected the pump, or valve, described in this Data Report on 12 March, 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 6-26, 1981
Signed [signature] Commissions NB 4805
(Inspector) (Nat'L Bd., State Prov. and No.)

1B21-415

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200174647 *(Repair Org. P.O. No., etc.)*

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F41G	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160865 WITH VALVE S/N 160852.
   SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# K745. 12 HYDRA NUTS 1-5/8"-8 HT# 590A.

16 STUDS 1"-8 HT# 2C05.AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-415 SHEET 2 OF 2

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

1. Manufactured by G. Dikkers & Co. N.V. Hengelo (O) The Netherlands (Name and Address of Manufacturer)
2. Manufactured for Perry I (Name and Address of Purchaser or Owner)
3. Location of Installation North Perry, Ohio (Name and Address)
4. ——— (CRN) G471-6/125.04.04 (Drawing No.) 27 (Nat'l. Brd. No.) 1978 (Year Built)
5. Valve G471 (Model No., Series No.) Identifying Nos. 160852 (Manufacturers' Serial No.)
Type safety/relief (Safety, Safety Relief, Pilot, Power Actuated)
Orifice Size 4.84" inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1165 Rated Temperature 585 °F
Stamped Capacity 905732 lbs/hr Sat. Steam @ 0 % Overpressure Blowdown (PSIG) 96.3
Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	03.04.8.R2	SA 352 LCB
Bonnet or Yoke	04.07.8 s/n 4	SA 352 LCB
Support Rods	———	—
Nozzle	AEU-029	SA 350 LF2
Disc	55.01.8.13	SA 351 CF3A
Spring Washers	211653 s/n 17	45 Cr Mo V 67
Adjusting Screw	AEU.048/AEU 086	SA 182 F31b
Spindle	AEW:032	A 564-74 type 630 cond. H1100
Spring	AJZ, AJR, AKA, AJJ, ALK,	—
Bolting	AUY, AMR, AJM, AJL	SA 193-B7/SA 194-7/SA 194-2H
Other Pieces		
Liner	58.05.8 s/n 1	SA 351 CF3A
Cover	62.04.8 s/n 5	SA 351 CF8M
Vent pipe	AEW 008	SA 105
Flanges	AEV-116/AEV 093	SA 105

Max. outside diam. valve body: 475 mm (18.70 inch)
Max. ourside length valve : 1644 mm (64.72 inch)

RECEIVED
JAN 11 1979
PNPP-SO/DC

* 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.

(1/76) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

NIR-6743-16725

16

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda Sum. '76 (Date)
Code Case No. ....

Date 10-11-78 Signed G. Dikkers & Co. N.V. by W.H. Willems
(Manufacturer)

Our ASME Certificate of Authorization No. 1806 to use the NV (NV)
symbol expires 1st July, 1980 (Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

PE State California/Illinois Reg. No. M14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Kemper Ins. of Long Grove, Ill. have inspected the pump, or valve, described in this Data Report on 10-11, 1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10-11 1978

Signed [signature] (Inspector) Commissions NB 4456 (Nat'L Bd., State Prov. and No.)

1B21-416

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200174650
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F51A	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160878 WITH VALVE S/N 160853.
   SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,

16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1821-716 SHEET 2 OF 2

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

1. Manufactured by C. Dikkers & Co. N.V. Hengelo (O) The Netherlands
(Name and Address of Manufacturer)
2. Manufactured for General Electric San Jose Calif.
(Name and Address of Purchaser or Owner)
3. Location of Installation North Perry, Ohio Perry I
(Name and Address)
4. ---------- (CRN) G471-6/125.04.04 (Drawing No.) 25 (Nat'l. Bd. No.) 1978 (Year Built)
5. Valve (Model No., Series No.) G471 Identifying Nos. 160853 (Manufacturers' Serial No.)
Type safety/relief (Safety, Safety Relief, Pilot, Power Actuated)
Orifice Size 4.84" inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1180 Rated Temperature 585 °F
Stamped Capacity 917253 (Sat. Steam) lbs/hr @ 3 % Overpressure Blowdown (PSIG) 110-5
Lee Grotrian
Hydrostatic Test (PSIG) Inlet 2350. Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification (Incl. Type or Grade
Body	10.44.7 s/n 2	SA-352-LCB
Bonnet or Yoke	03.24.8 s/n 1	SA-352-LCB
Support Rods	----------	---
Nozzle	AEU 025	SA 350 LF2
Disc	55.52.7 s/n 1A	SA 351 CF3A
Spring Washers	211653. s/n 14	45 Cr-Mo-V 67
Adjusting Screw	AFU 054 + 003	SA 182 F316
Spindle	AEW 017	A 564-74 type 630 cond. H1100
Spring	----------	---
Bolting	AUP, AJR, AKA, AJJ, ALR, AUY,	SA 193-B7/SA 194-7/SA 194-2H
~~Other Pieces~~	AHR, AJM, AJL	
Liner	55.13.8 s/n 2	SA 351 CF3A
Cover	62.04.8 s/n 1	SA 351 CF8M
Vent pipe	AFW 016	SA 105
Flanges	AFV 070 + 003	SA 105

Max. ourside diam. valve body: 476 mm (18.74 inch)
Max. ourside length valve : 1642 mm (64.65 inch)

* 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

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda sum. '76 (Date)
Code Case No. ----

Date 10-11-78 Signed G. Dikkers & Co. N.V. (Manufacturer) by W.M. Willems

Our ASME Certificate of Authorization No. 1806 to use the NV (NV) symbol expires 1st July, 1980 (Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

PE State California/Illinois Reg. No. M14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Kemper Ins of Long Grove, Ill. 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 constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10-11 19 78

Signed Lee Grotsch (Inspector) Commissions NB 4456 (Nat'l Bd., State Prov. and No.)

1B21-417

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200174645
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F41A	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160900 WITH VALVE S/N 160884.
   SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# 0G84, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,

16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date MAY 20 20 09 Signed (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-417 SHEET 2 OF 2

4 *Corrected report

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*

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

1. Manufactured by G. Dikkers & Co. NV. Henyelo (O) The Netherlands (Name and Address of N Certificate Holder)
2. Manufactured for General Electric, San Jose, California (Name and Address of Purchaser or Owner)
3. Location of Installation Perry I+II spares North Ohio (Name and Address)
4. G 471-6/125.04.03 rev. 6 (CRN) G471 (Drawing No.) 144 (Nat'l. Bd. No.) 1979 (Year Built)
5. Valve (Model No., Series No.) Identifying Nos. 760884 (N Certificate Holder's Serial No.)
   Type Safety/Relief (Safety, Safety Relief, Pilot, Power Actuated)
   Orifice Size 4.84 inch Nominal Inlet Size 8" (Flanges) inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1165 Rated Temperature 585 °F
   Stamped Capacity 905732 lbs/hr (Est. Steam) @ 2350 % Overpressure Blowdown (PSID) 95,62
   Hydrostatic Test (PSIG) Inlet 975 Outlet (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification incl. Type or Grade
Body	17.25.8 s/n 3	SA 352 LCB
Bonnet or Yoke	08.41.8 s/n 3	SA 352 LCB
Support Rods		
Nozzle	AJW 080	SA 350 LF2
Disc	55.08.9 s/n 2A	SA 351 CF3A
* Spring Washers	26.30.95.s/n 133	45 Cr Mo V 67
Adjusting Screw	ASB 109/ ASB 063	SA 182 F 316
Spindle	APG 027	A 564-74 type 630 cond. H1100
Spring		
* Bolting	ANY/ANZ/AVS/AJS/APA/APB/ANZ	SA 193-B7/SA 194-7/SA 194-2H
Other Pieces	CAL/ALR/AUY	
Liner	53.40.8 s/n 2	SA 351 CF3A
Cover	55.23.8 s/n 3	SA 351 CF8M
Vent. Pipe	AWB 007	SA 105
* Flanges	ASA 013/ASA 098	SA 105

Max. outside diam. valve body: 477 mm (18.78)

Max. outside length valve : 1644 mm. (64.73)

* 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.

(10/77) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

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

Code Case No. N.A.

Date 81-07-03 Signed G. Dikkers & Co NV (N Certificate Holder) by

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 I+II spares

Stress analysis report (Class 1 only) on file at General Electric and Perry I+II spares

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

State California/Illinois Reg. No. M 14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario (Canada) and employed by Royal Indemnity of New York have inspected the pump, or valve, described in this Data Report on 26 September, 19 79, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 7 July 19 81

Signed (Inspector) Commissions N B 6653 (Nat'l Bd., State Prov. and No.)

1B21-418

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200174649
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F47G	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160872 WITH VALVE S/N 160893.
SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,

16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 27, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/27, 20 09 Signed (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-4/8 SHEET 2 OF 2

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES

As Required by the Provisions of the ASME Code, Section III, Div. 1 MR#10854

1. Manufactured by G. Dikkers & Co. B.V. Hengelo (O) The Netherlands
(Name and Address of N Certificate Holder)
2. Manufactured for General Electric San Jose California
(Name and Address of Purchaser or Owner)
3. Location of Installation Perry 1 + 11 spares North Perry Ohio
(Name and Address)
4. N/A (CRN) G471-6/125.04.03 rev. 6 (Drawing No.) 151 (Nat'L Brd. No.) 1979 (Year Built)
5. Valve G471 (Model No., Series No.) Identifying Nos. 160893 (N Certificate Holder's Serial No.)
Type safety/relief
Safety, Safety Relief, Pilot, Power Actuated
Orifice Size 4.84" inch Nominal Inlet Size 8"(Flanges) inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1180 Rated Temperature 585 °F
Stamped Capacity 917253 Set. Steam lbs/hr @ 3 % Overpressure Blowdown (PSIG) 42.35
Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	05.19.8 s/n 5	SA 352 LCB
Bonnet or Yoke	12.29.8 s/n 2	SA 352 LCB
Support Rods		—
Nozzle	AJW 113	SA 350 LF2
Disc	60.07.9 s/n 28	SA 351 CF3A
ng Washers	26.30.95 s/n 153	45 Cr Mo V 67
Adjusting Screw	ASB 081/ASB 009	SA 182 F316
Spindle	CAD 010	A 564-74 type 630 cond. H1100
Spring		
Bolting	ARY/ANZ/AVS/AJS/APA/APB/ANZ	SA 193-B7/SA 194-7/SA 194-2H
Other Pieces		
Liner	63.04.09 s/n 1	SA 351 CF3A
Cover	53.38.8 s/n 1	SA 351 CF8M
Vent pipe	AKB 046	SA 105
Flanges	ASA 224/ASA 213	SA 105

Max. outside diam. valve body: 478 mm.(18.82)
Max. outside length valve : 1648 mm.(64.88)

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.

(10/77) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NV-1 (Back) MR# 10854

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda Sum. '76 (Date)
Code Case No. N/A .

Date 791017 Signed C. Vikkers & Co. N.V. by R.J. Howe
(N 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 I + II spares
Stress analysis report (Class 1 only) on file at General Electric and Perry I + II spares

Design specifications certified by[1] Boyd P. Brooks
PE State California Reg. No. 13655
Stress report certified by[1] 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 Ontario (Canada) and employed by Royal Indemnity Co. of New York have inspected the pump, or valve, described in this Data Report on 17 OCTOBER, 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 17 OCTOBER 1979.
Signed (Inspector) Commissions N.B. 6653. (Nat'l. Bd., State Prov. and No.)

1B21-419

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200174651
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F51C	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160880 WITH VALVE S/N 160861.
SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A.

16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1821-419 SHEET 2 OF 2

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

1. Manufactured by C. Dikkers & Co. N.V. Hengelo (O) The Netherlands (Name and Address of Manufacturer)
2. Manufactured for General Electric (Name and Address of Purchaser or Owner)
3. Location of Installation Perry Nuclear Power Plant Ohio (Name and Address)
4. ---- (CRN) 1471-6/12'.04.04 (Drawing No.) ---- 36 (Nat'l Bd. No.) ---- 1978 (Year Built)
5. Valve 1471 (Model No., Series No.) Identifying Nos. 100861 (Manufacturer's Serial No.)
   Type safety/relief (Safety, Safety Relief, Pilot, Power Actuated)
   Orifice Size 4.84" inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1190 Rated Temperature 585 F
   Stamped Capacity 924933 lbs/hr @ 2 % Overpressure Blowdown (PSIG) 113,8
   Sat. Steam
   Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	12.477 R.2	SA 352 LCB
Bonnet or Yoke	08 24.8 S.n. 2	SA 352 LCB
~~Support Rods~~	----	-
Nozzle	AEV 061	SA 350 LF2
Disc	53.04.8 3B	SA 351 CF3A
Spring Washers	26.30.95 38	45 Cr Mo V 67
Adjusting Screw	AME 042 AME 016	SA 182 F316
Spindle	AEW 006	A 564-74 type 630 cond. H1100
~~Spring~~		-
Bolting	AVT/AJK/AWA/AJJ	SA 193-B7/SA 194-7/SA 194-2H
Other Pieces	AUR/AUY/AMK/AJL/	
Liner	53.16.8 S.n.2	SA 351 CF3A
Cover	55.50.7 S.n. 8	SA 351 CF8M
Vent pipe	AWE 003	SA 105
Flanges	AFV 023 AFV 079	SA 105

Max. outside diam. valve body : 479 mm (18,85")
Max outside length valve : 1648 mm (64,88")

RECEIVED
JAN 11 1979
PNPP-SO/DC

* 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.

(1/76) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

6742/6725
24

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 Summ. '76. (Date)

Code Case No. .....

Date 28.11.1978 Signed G. Nikkers & Co. N.V. (Manufacturer) by W.M. Willems

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 Petty

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

PE State California/Illinois Reg. No. M14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Kemper Ins of Hong Grove Ill. have inspected the pump, or valve, described in this Data Report on 20. Nov. 19 78. and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 20. Nov. 19 78

Signed (Inspector) Commissions NB 4456 (Nat'l. Bd., State Prov. and No.)

1B21-420

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200174652
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F51G	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160899 WITH VALVE S/N 160876.
   SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1028 psi Test Temperature 125 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: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A,

16 STUDS 1"-8 HT# 2C05,AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1B21-420 SHEET 2 OF 2

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*

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

1. Manufactured by G. Dikkers & Co. NV. Hengelo (O) The Netherlands (Name and Address of N Certificate Holder)
2. Manufactured for General Electric, San Jose, California (Name and Address of Purchaser or Owner)
3. Location of Installation Perry II North Perry Ohio (Name and Address)
4. (CRN) G 471-6/125.04.03 rev. 6 (Drawing No.) 77 (Nat'l. Bd. No.) 1979 (Year Built)
5. Valve G471 (Model No., Series No.) Identifying Nos. 160876 (N Certificate Holder's Serial No.)
   Type Safety/Relief (Safety, Safety Relief, Pilot, Power Actuated)
   Orifice Size 4,84" inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1180 Rated Temperature 585 °F
   Stamped Capacity 917253 (Set Steam) lbs/hr @ 3 % Overpressure Blowdown (PSIG) 445
   Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	15.15.8-2	SA 352 LCB
Bonnet or Yoke	16.06.8-2	SA 352 LCB
Support Rods		
Nozzle	AJW 031	SA 350 LF2
Disc	57.29.8 2B	SA 351 CF3A
Spring Washers	26.30.95-70	45 Cr Mo V 67
Adjusting Screw	AFU 109 AME 007	SA 182 F 316
Spindle	AJE 044	A 564-74 type 630 cond. H1100
Spring		
* Bolting	ANY/AYE/AVS/AJK/AWZ/AJJ	SA 193-B7/SA 194-7/SA 194-2H
~~Other Pieces~~	AJS/APA/AJL	
~~Liner~~	55.31.8-1	SA 351 CF3A
~~Cover~~	5.8.04.8-6	SA 351 CF8M
~~Vent. Pipe~~	AKE 040	SA 105
~~Flanges~~	AFV 127 AKF 045	SA 105

Max. outside diam. valve body 478 mm (18,82)"

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

* 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.

(10/77) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda sum. '76 (Date).
Code Case No. N.A.

Date 81-06-25 Signed G. Dikkers & Co NV (N Certificate Holder) by [signature]

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[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

PE State California/Illinois Reg. No. M 14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio. PA and employed by Kemper Ins. of Long Grove III have inspected the pump, or valve, described in this Data Report on 23 March. 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 6-26 19 81.

Signed J. W. Stobs (Inspector) Commissions NB 4805 (Nat'L Bd., State Prov. and No.)

1B21 - 421

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-19-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200174648
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER PROCESS 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) 272, 1644-4, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GENERAL ELECTRIC	1B21	64084	1B21F47C	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 160895 WITH VALVE S/N 160854.
   SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1028 psi Test Temperature 125 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: INSTALLED 12 STUDS 1-5/8"-8 HT# K745, 12 HYDRA NUTS 1-5/8"-8 HT# 590A.

16 STUDS 1"-8 HT# 2C05.AND 16 HYDRA NUTS 1"-8 HT# 591A.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* [signature] *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 20, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/20, 20 09 Signed [signature] *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1821-421 SHEET 2 OF 2

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6743/6725
19

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

1. Manufactured by G. Dikkers & Co. N.V. Hengelo (O) The Netherlands (Name and Address of Manufacturer)
2. Manufactured for Perry I (Name and Address of Purchaser or Owner)
3. Location of Installation North Perry, Ohio (Name and Address)
4. ——— (CRN) G471-6/125.04.04 (Drawing No.) 26 (Nat'l. Brd. No.) 1976 (Year Built)
5. Valve G471 (Model No., Series No.) Identifying Nos. 160854 (Manufacturers' Serial No.)
   Type safety/relief (Safety, Safety Relief, Pilot, Power Actuated)
   Orifice Size 4.84" inch Nominal Inlet Size 8" inch Outlet Size 10" inch
6. Set Pressure (PSIG) 1180 Rated Temperature 585 °F
   Stamped Capacity 917253 lbs/hr (Sat. Steam) @ 0 % Overpressure Blowdown (PSIG) 97.9
   Hydrostatic Test (PSIG) Inlet 2350 Outlet 975 (Applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	12.04.8 s/n 1	SA 352 LCB
Bonnet or Yoke	16.06.8 s/n 3	SA 352 LCB
Support Rods	———	—
Nozzle	AEH 037	SA 350 LF2
Disc	55.01.8 s/n 1A	SA 351 CF3A
Spring Washers	211653 s/n 12	45 Cr Mo V 67
Adjusting Screw	AFU 131/AFU 094	SA 182 F316
Spindle	AEW 034	A 564-74 type 630 cond. H1100
Spring	———	—
Bolting	AUP, AJR, AUK, AJJ, ALR,	SA 193-B7/SA 194-7/SA 194-2H
Other Pieces	AMR, AJM, AJL	
Liner	60.04.8 s/n 2	SA 351 CF3A
Cover	58.50.7 s/n 1	SA 351 CF8M
Vent pipe	AEW 021	SA 105
Flanges	AEV 039/AEV 090	SA 105

Max. outside diam. valve body: 476 mm (18.74 inch)
Max. outside length valve : 1645 mm (64.76 inch)

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

MR
6743/6[illegible]
20

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1., 1974 Edition, Addenda sum. '76 (Date)
Code Case No. .....

Date 10-11-78 Signed C. Dikkers & Co., N.V. (Manufacturer) by W.M. Willems

Our ASME Certificate of Authorization No. 1806 to use the NV (NV) symbol expires 1st July, 1980 (Date)

CERTIFICATION OF DESIGN

Design information on file at General Electric and Perry

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

Design specifications certified by[1] Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by[1] Robert L. Weiss

PE State California/Illinois Reg. No. M14921/62-25749

[1] Signature not required—list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Kemper Ins. of Long Grove, Ill. 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 constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10-11 19 78

Signed Lee Graham (Inspector) Commissions NB 4456 (Nat'L Bd., State Prov. and No.)

1B21-422

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-5-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200357532
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
NONE 19 Addenda Code Case(s) 1622

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition none Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	ATWOOD & MORRILL	7-560	N/A	1B21 F0028C	1976	Replacement	YES

7. Description of Work: REBUILT VALVE S/N 7-560 USING NEW POPPET S/N 1.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1030 psi Test Temperature 150 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 5 JUNE, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on June 5 2009 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5 June, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1821-422 SHEET 2 OF 3

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)

3. Owner Cleveland Electric Illuminating Co.

4. Location of Plant North Perry, Ohio

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

6. Design Conditions 1375 (Pressure) psi 586 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date N/A, Case No. 1622

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body RT# N2675	SA216 WCB	Quaker Alloy	S/N 7-560
(b) Forgings			
Poppet	SA350 Gr. LF-2	Cann & Saul	S/N 8-560
Cover	SA105 (QT)	Cann & Saul	S/N 7-560

*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)	SA540 Gr.B 23 Class 5	Jos.Dyson&Sons	Heat# 114188
Cover Nuts (18)	SA540 Gr.B 23 Class 5	Jos.Dyson&Sons	Heat#134951
(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 comply with the CODE for Material Construction and workmanship, but are not included as far as design is concerned.			

8. Hydrostatic test Body 2175 Poppet 1450 psi.

CERTIFICATION OF DESIGN

Design information on file at General Electric Co., San Jose, California
Stress analysis report on file at Atwood & Morrill Co. Inc., Salem, Mass.
Design specifications certified by Ranjit Ranjan Ghosh (1) Prof. Eng. State Calif Reg. No. 16371
Stress analysis report certified by Herbert Cook (1) Prof. Eng. State Mass. Reg. No. 10981
(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 3-24 19 76 Signed Atwood&Morrill Co.Inc By [signature]
(Manufacturer) Quality Control Manager

Certificate of Authorization No. N812 expires May 7, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Massachusetts and employed by Hartford Steam Boiler Insp. & Ins. Co. of Hartford, Conn. have inspected the equipment described in this Data 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 with the applicable Subsections of ASME Code, Section III.

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

Date 3-24 1976

[signature] Commissions Mass. 1264 Ohio Commission
(Inspector) (National Board, State, Province and No.)
Gerard Cocuzzo

1821-422 SHEET 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

Pg. 1 of 1

1. Manufactured and certified by Atwood & Morrill Co., Inc. 285 Canal Street, Salem, MA 01970
(name and address of NPT Certificate Holder)

2. Manufactured for: Centerior Energy 10 Center Road Perry, Ohio 44081
(name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 10 Center Rd. Dock No. 1 North Perry OH 44081
(name and address)

4. Type* 32467-626-D Rev. 3 (drawing no.) SA105 (mat'l. spec. no.) 75,700 PSI (tensile strength) N/A (CRN) 1993 (year built)

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

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A

7. Remarks: Cust. Item 01, A&M Item 01, Qty. 1, Poppet A&M P/N 32467-626-2974-121, (A&M S.O. 25637) *Dwg. prepared by A&M. This certification meets the required information of ASME Section 1974 Edition No Addenda.

8. Nom. thickness (in.) 7 7/8" Min. design thickness (in.) 6 1/8" Dia. ID (ft & in.) N/A Length overall (ft & in) N/A

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) HT# C6601 S/N 1	N/A
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

PI
DB

10. Design pressure 1375 psi. Temp. 586 °F. Hydro. test pressure N/A (when applicable) at temp. °F

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

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

Reprint (7/91)

1B21-423

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-24-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200288203
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   NONE 19 Addenda Code Case(s) 1622

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) none (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	ATWOOD & MORRILL	2-560	N/A	1B21 F0022B	1976	Replacement	YES

7. Description of Work: REWORKED VALVE USING 1 COVER STUD 2.25-8 HT# OU16 AND 1 COVER NUT 2.25-8 HT# EE69.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1011 psi Test Temperature 143 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 24 JUNE, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on JUNE 26 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 09 Signed _____ *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1B21-423 SHEET 2 OF 2

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)

3. Owner Cleveland Electric Illuminating Co.

4. Location of Plant North Perry, Ohio

5. Pump or Valve Identification Valve S/N 2-560 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

6. Design Conditions 1375 (Pressure) psi 586 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date N/A, Case No. 1622

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body RT# N1777	SA216 WCB	Quaker Alloy	S/N 2-560
(b) Forgings			
Poppet	SA350 Gr LF-2	Cann & Saul	S/N 2-560
Cover	SA105 (OT)	Cann & Saul	S/N 3-560

*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)	SA540 Gr. B23 Class 5	Jos. Dyson&Sons	Heat# 114188
	Cover Nuts (18)	SA540 Gr. B23 Class 5	Jos. Dyson&Sons	Heat# SP7751
(d)	Other Parts			
	* 3/4 - Nipples (2)	SA106 Gr. B	U.S. Steel	S/N 3-560
	* 45° Elbow	SA105	Vogt Mach. Co.	S/N 11-560

* Note: These items comply with the CODE for Material Construction and workmanship, but are not included as far as design is concerned.

8. Hydrostatic test Body 2175 Poppet 1450 psi.

CERTIFICATION OF DESIGN

Design information on file at General Electric Co., San Jose, California
Stress analysis report on file at Atwood & Morrill Co. Inc., Salem, Mass.
Design specifications certified by Ranjit Ranjan Ghosh (1) Prof. Eng. State Calif. Reg. No. 16371
Stress analysis report certified by Herbert Cook (1) Prof. Eng. State Mass. Reg. No. 10981
(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 1-19-76 19 76 Signed Atwood&Morrill Co. Inc (Manufacturer) By [signature] Quality Control Manager

Certificate of Authorization No. N812 expires May 7, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Massachusetts and employed by Hartford Steam Boiler Insp. & Ins. Co. of Hartford, Conn. have inspected the equipment described in this Data Report on 1-19 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 1-19 19 76

[signature] (Inspector) Commissions MA 946 (National Board, State, Province and No.)

1B21-424

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-30-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200262683
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS), 1974 Edition
   WINTER 19 75 Addenda Code Case(s) NONE

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 75 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	ROCKWELL	QC-51	670	1B21 F0032B	1982	Replacement	YES

7. Description of Work: REMOVED AND REINSTALLED TEST CONNECTION FOR INSPECTION.
   USING FILLER METAL HT# 159443, 42379.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1030 psi Test Temperature 150 degrees F Code Case(s) N-416-3

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 30 JUNE, 20 09 Signed FENOC-PNPP (name of repair organization) _____ (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 6/30/9, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 30 JUNE, 20 09 Signed _____ (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1821-424 SHEET 2 OF 2

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

1. Manufactured by Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)
2. Manufactured for Cleveland Elec. Ill. Company, P.O. Box 500, Cleveland, Ohio 44101
(Name and Address of Purchaser or Owner)
3. Location of Installation Perry Nuclear Power Plant, Units 1 & 2, North Perry, Ohio
(Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 20 (inch) Outlet Size 20 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	7592(WCC)	QC-51	N/A	D81-24401-15	1	670	1982
(2)	JNQTY			Rev. A			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Controlled Closure Check Valve
Hear No. 4810433-120 (Brief description of service for which equipment was designed) Rockwell S.O. 86-24401

6. Design Conditions 1510 (Pressure) psi 420 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 2250 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
4810433	SA 216 Gr. WCC	Rockwell Int'l (Metal Casting Div.)	Body
(b) Forgings			
116447	SA 105	Charles E. Larson	Cover
10502	SA 105	Charles E. Larson	Disk
36996	SA 638 Gr. 660T2	Charles E. Larson	Gasket Retainer
126376	SA 105	Charles E. Larson	Drain Cap (2)
116792	SA 105	Charles E. Larson	Test Fitting

(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.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (82-4)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
L23469	SA 106 Gr. B	Capital Pipe & Steel Products	Equalizer
05505	SA 106 Gr. B	Capital Pipe & Steel Products	Drain Nipple (2)

2. Hydrostatic test 3375 psi. Disk Differential test pressure 2250 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda Winter 1975 (Date), Code Case No. N/A, Date 2-10-82

Signed Rockwell International Corp. (N Certificate Holder) by [signature] Manager, Quality Assurance 2/10/82

Our ASME Certificate of Authorization No. N-1562 to use the N (N) symbol expires 11/26/82 (Date)

CERTIFICATION OF DESIGN

Design information on file at Rockwell International Corp., Raleigh, NC 27603

Stress analysis report (Class 1 only) on file at Rockwell International Corp., Raleigh, NC 27603

Design specifications certified by (1) Milton G. Capiotis

PE State PA Reg. No. 028303-E

Stress analysis certified by (1) R.L. Clapper

PE State NC Reg. No. 10057

RECEIVED BY 5055 QAI/QA

(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 North Carolina and employed by HSBI & I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on FEB 05, 19 82, 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, Section III.

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

Date FEB 10 19 82

[signature] (Inspector)

Commissions NB8383 NC919 (Nat'l Bd., State, Prov. and No.)

1B21-425

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NOI-1741

1. Owner: FIRSTENERGY CORP. Date 6-30-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200262682
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: NUCLEAR BOILER 1B21

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) NONE

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 75 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	ROCKWELL	QA-26	665	1B21 F0032A	1981	Replacement	YES

7. Description of Work: REMOVED AND REINSTALLED TEST CONNECTION FOR INSPECTION.
USING FILLER METAL HT# 159443, 42379.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1030 psi Test Temperature 150 degrees F Code Case(s) N-416-3

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

PNPP No. 9305 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 30 JUNE, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 6/30/9, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 30 JUNE, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

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

1. Manufactured by Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)
2. Manufactured for Cleveland Electric Ill., Company, P.O. Box 500, Cleveland, Ohio 44101
(Name and Address of Purchaser or Owner)
3. Location of Installation Perry Nuclear Power Plant, Units 1 & 2, North Perry, Ohio
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 20 (inch) Outlet Size 20 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	7592(WCC)	QA-26	N/A	D-81-24401-15	I	665	1981
(2)	JNQTY			Rev. A			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Controlled Closure Check Valve
(Brief description of service for which equipment was designed)
Heat No. 4810453-122 Rockwell S.O. 36-24401

6. Design Conditions 1510 (Pressure) psi 420 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 2250 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
4810453	SA 216 Gr. WCC	Rockwell Int'l	Body
		(Metal Casting Div)	
(b) Forgings			
116447	SA 105	Charles E. Larson	Cover
220528	SA 105	Camn & Saul Steel Company	Disk
36996	SA 638 Gr. 660T2	Charles E. Larson	Gasket Retainer
126376	SA 105	Charles E. Larson	Drain Cap (2)
116792	SA 105	Charles E. Larson	Test Fitting

DOCUMENT REVIEWED BY 5456

(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.

FORM REV-1 (80)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
L23469	SA 106 Gr. B	Capital Pipe & Steel Products	Equalizer
05505	SA 106 Gr. B	Capital Pipe & Steel Products	Drain Nipple

9. Hydrostatic test 3375 psi. Disk Differential test pressure 2250 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda Winter 1975 (Date), Code Case No. N/A, Date 12-30-81

Signed Rockwell International Corp. (N Certificate Holder) by [signature] Manager, Quality Assurance 12/30/81

Our ASME Certificate of Authorization No. N-1562 to use the N (N) symbol expires 11-26-82 (Date).

CERTIFICATION OF DESIGN

Design information on file at Rockwell International Corp., Raleigh, NC 27603

Stress analysis report (Class 1 only) on file at Rockwell International Corp., Raleigh, NC 27603

Design specifications certified by (1) Milton G. Capiotis

PE State PA Reg. No. 028303-E

Stress analysis certified by (1) R.L. Clapper

PE State NC Reg. No. 10057

(1) Signature not required. List name only.

DOCUMENT RECEIVED BY 5455 GAI/C

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 North Carolina and employed by ESBI & I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on Dec. 22, 19 81, 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, Section III.

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

Date Dec. 30, 19 81.

1B33-130

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 10/03/07
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 200099255
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/08

4. Identification of System: 1B33 REACTOR RECIRC. SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III NB Class 1 1971 Edition
NAME/SECTION/DIVISION/CLASS TGC 7/7/09
SUMMER 19 73 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda see abov Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition no Addenda n/a Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 n/a 19 n/a Addenda n/a Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PUMP	BYRON JACKSON	741-S-1281	NA	1B33 C0001A	1978	RPL	YES

7. Description of Work: REPLACED SEAL CARTRIDGE ASSEMBLY WITH NEW REBUILT CARRIDGE ASSEMBLY S/N 318455.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☒
Pressure 1000 psi Test Temperature 132 degrees F Code Case(s)

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

PNPP No. 9308 Rev. 9/11/00 NOI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9/28, 20 08

Date 10/2, 20 07 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) OE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford CT.. have inspected the repair, modification or replacement described in this report on OCT 3, 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 10/3, 20 07 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

1B33-130 pg 2 of 2 MR126707

1B33-105
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

Pg. 1 of 2

anufactured and certified by BW/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 E. VERNON AVE., VERNON, CA 90058
(name and address of NPT Certificate Holder)

anufactured for THE CLEVELAND ELECTRIC ILLUMINATING CO. 10 CENTER ROAD, PERRY, OHIO 44081
(name and address of Purchaser)

cation of installation PERRY NUCLEAR POWER PLANT, UNIT 1 10 CENTER ROAD, DOCK NUMBER 1, NORTH PERRY, OHIO 44081
(name and address)

pe: L002168 REV. A (drawing no.) SA-182 GR. F316 (mat'L spec. no.) 75,000 PSI (tensile strength) N/A (CRN) 1996 (year built)

SME Code, Section III, Division 1: * 1971 (edition) SUMMER 1973 (addenda date) 1 (class) N/A (Code Case no.)

bricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A

marks: BW/IP JOB NO: 95-HE-2541 NOMENCLATURE: N-7500 SEAL CARTRIDGE ASSEMBLY.

* DESIGN, MATERIAL, FABRICATION AND EXAMINATION IN ACCORDANCE WITH 1983 EDITION SUMMER 1984 ADDENDA.

m. thickness (in.) 2.625 Min. design thickness (in.) 2.500 Dia. ID (ft & in.) 1' 7.500" Length overall (ft & in.) 0' 3.105"

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	318455	N/A	(26)		
(2)			(27)		
(3)			(28)		
(4)			(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(34)		
(10)			(35)		
(11)			(36)		
(12)			(37)		
(13)			(38)		
(14)			(39)		
(15)			(40)		
(16)			(41)		
(17)			(42)		
(18)			(43)		
(19)			(44)		
(20)			(45)		
(21)			(46)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

PERRY NUCLEAR POWER PLANT CEI

esign pressure 1650 psi. Temp. 575 °F. Hydro. test pressure 2065 PSI / 60° MIN (when applicable) at temp. °F

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

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. 318455 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

Design report* certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~(these)~~ N-7500 SEAL CARTRIDGE ASSEMBLY conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1996

Date Jan. 12, 1996 Name BW/IP INTERNATIONAL, INC. (NPT Certificate Holder) Signed J. Michael Manoff (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 CALIFORNIA and employed by ARKWRIGHT MUTUAL INSURANCE CO., FACTORY MUTUAL ENGINEERING ASSOCIATION of NORWOOD, MASS. have inspected these items described in this Data Report on 01/12/96, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 01/12/96 Signed C Coulard (Authorized Inspector) Commissions CA1864, NBIC-IS (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

1B33-131

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-25-9
10 Center Road. Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200284501
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: REACTOR RECIRCULATION 1B33

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
NAME/SECTION/DIVISION/CLASS

WINTER 19 75 Addenda Code Case(s) 272, 1728, 1644-4

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GE	1B33	64076	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 022 WITH SNUBBER S/N 060.
PLANT ID 1B33G7066A.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 25 April, 20 09 Signed FENOC-PNPP (name of repair organization) Michael J Tepsick (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 25 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 4/25, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

7/8/09

BEST AVAILABLE COPY

Sheet 2

5988

9

FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS

As Required by the Provisions of the ASME Code Rules, Section III, Division 1

1. Manufactured by E-Systems, Inc., Montek Division, Salt Lake City, Utah
(Name and address of manufacturer)

2. Manufactured for General Electric Company, San Jose, California
(Name and address of purchaser or owner)

3. Location of installation Perry 1 Nuclear Power Plant, Recirc. System, North Perry, Ohio

4. Identification

(a) Component Support I.D. No.	(b) Certificate Registration No.	(c) Applicable Drawings with Last Rev. & Date	(d) Stress Report or Load Capacity Data Sheet	(e) Type of Component Support	(f) Class	(g) Nat'l Board No.	(h) Year Built
(1) 057	N/A	152610A	LCD152000-302-10	Linear	1	None	1978
(2) 058	"	"	"	"	"	"	"
(3) 059	"	"	"	"	"	"	"
(4) 060	"	"	"	"	"	"	"
(5) 061	"	"	"	"	"	"	"
(6) 062	"	"	"	"	"	"	"
(7) 063	"	"	"	"	"	"	"
(8) 064	"	"	"	"	"	"	"
(9) 065	"	"	"	"	"	"	"
(10) 066	"	"	"	"	"	"	"

5. Remarks: GEIG Contract # 1008-L

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1974, Addenda Winter 1976, Code Case No. 1644-4, 1682, 1706.

Date 30 Sept. 1978 Signed E-Systems, Inc., Montek Div. (Manufacturer) By W. S. Enright

Our ASME Certificate of Authorization No. 1356 to use the NPT (NPT) Symbol expires 1 March 1979 (Date)

CERTIFICATION OF DESIGN

Design information on file at E-Systems, Inc., Montek Division, Salt Lake City, Utah

Stress Report or Load Capacity Data Sheet on file at E-Systems, Inc., Montek Division, Salt Lake City, Utah

Design Specifications Certified by (1) Robert Lee Warren III P.E. State Utah Reg. No. 3942

Stress Analysis Report or Load Capacity Data Sheet Certified by (1) Robert Lee Warren III P.E. State Utah Reg. No. 3942

(1) Signature not required. List name only.

[illegible]

(1/76) This form (E00035) is available from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

PAGE [illegible] 2

Best Available Copy SMF Email 7/22/09

(FORM NF-1 Back)

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 Utah and employed by Travelers Indemnity Ins. Co. of New York, New York

have inspected the component described in this Manufacturer's Data Report on September 30, 19 78 and state that to the best of my knowledge and belief, the Manufacturer has constructed this component in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Manufacturer's 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 9/30/78

Signed [signature] Commissions Utah 2

(National Board, State, Province, and No.)

CERTIFICATE OF FIELD 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

and employed by

have compared the statements in this Manufacturer's Data Report with the described component and state that to the best of my knowledge and belief, the Manufacturer has constructed and installed this component in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Manufacturer's 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

Signed

Commissions

(National Board, State, Province, and No.)

1B33-132

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-25-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200284502
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: REACTOR RECIRCULATION 1B33

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
NAME/SECTION/DIVISION/CLASS

WINTER 19 75 Addenda Code Case(s) 272, 1728, 1644-4

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	GE	1B33	64076	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 006 WITH SNUBBER S/N 059.
PLANT ID 1B33G7070A.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 25 April, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 25, 2009 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 4/25, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

BEST AVAILABLE COPY RMA 7/8/09

9

FORM NF-1 MANUFACTURERS' DATA REPORT FOR COMPONENT SUPPORTS
As Required by the Provisions of the ASME Code Rules, Section III, Division 1

1. Manufactured by E-Systems, Inc., Montek Division, Salt Lake City, Utah
(Name and address of manufacturer)

2. Manufactured for General Electric Company, San Jose, California
(Name and address of purchaser or owner)

3. Location of Installation Perry 1 Nuclear Power Plant, Recirc. System, North Perry, Ohio

4. Identification

(a) Component Support Ident. No.	(b) Canadian Registration No.	(c) Applicable Drawings with Last Rev. & Date	(d) Stress Report or Load Capacity Data Sheet	(e) Type of Component Support	(f) Size	(g) Nat'l Board No.	(h) Year Built
(1) 057	N/A	152610A	LCD152000-602-10	Linear	[illegible]	None	1978
(2) 058							
(3) 059							
(4) 060							
(5) 061							
(6) 062							
(7) 063							
(8) 064							
(9) 065							
(10) 066							

5. Remarks: CEIC Contract P-1008-L

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1974 Addenda Winter 1976 Code Case No. 1644-4, 1682, 1706

Date 30 Sept. 1978 Signed E-Systems, Inc., Montek Div. (Manufacturer) by W. S. Enright

Our ASME Certificate of Authorization No. 1356 to use the NPT (NPT) Symbol expires 1 March 1979 (Date)

CERTIFICATION OF DESIGN

Design Information on File at E-Systems, Inc., Montek Division, Salt Lake City, Utah

Stress Report or Load Capacity Data Sheet on File at E-Systems, Inc., Montek Division, Salt Lake City, Utah

Design Specifications Certified by (1) Robert Lee Warren III P.E. State Utah Reg. No. 3942

Stress Analysis Report or Load Capacity Data Sheet Certified by (1) Robert Lee Warren III P.E. State Utah Reg. No. 3942

(1) Signature not required. List name 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 4 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.

(1/75) This form (E00075) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

Best Available Copy SMF Email 7/22/09

MR 5988
10

FORM NF-1 (Back)

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 Utah and employed by Royal Indemnity Ins. Co. of New York, New York have inspected the component supports described in this Manufacturers' Data Report on September 30 1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports described in this Manufacturers' 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 9/30/78

Signed [signature] Commissions Utah 2
(Nat'l Bd., State, Prov. and No.)

CERTIFICATION OF FIELD 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 ____ and employed by ____ have compared the statements in this Manufacturers' Data Report with the described component supports and state that the parts referred to as data items ____ not included in the certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief, the Manufacturer has constructed these component supports in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports described in this Manufacturers' 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 ____

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

1B33-133

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-3-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200005700
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: REACTOR RECIRCULATION 1B33

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   NONE 19 Addenda Code Case(s) 1567, 1516-1, 1637

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition none Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	ANCHOR DARLING	E-602D-2-3	N/A	1B33 F0067B	1976	Replacement	YES

7. Description of Work: REBUILT VALVE USING 3 NEW BODY TO BONNET STUDS AND NUTS.
   1.75"-8 STUDS HT # 47024 AND 1.75"-8 HH NUTS HT # R608.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1025 psi Test Temperature 123 degrees F Code Case(s) - N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 3 JUNE, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 5 JUNE, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/5, 20 09 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

*REVISED COPY
1833-133

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company 701 First St., Williamsport, Pa. 17701 (Name & Address of Manufacturer) Order No. E-6020

2. Manufactured for General Electric Company 175 Curtner Ave., San Jose, Calif. 95125 (Name and Address) Order No. 205-AG442

3. Owner Cleveland Electric Illuminating Company

4. Location of Plant North Perry, Ohio

5. Pump or Valve Identification E-6020-2-3

24x20x24" Recirc. Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 94-13862 Rev. F Prepared by Anchor/Darling Valve Co.

(b) National Board No.

6. Design Conditions 1650 (Pressure) psi 575 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date N/A, Case No. 1567, 1516-1, 1637

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
	Body Ht. F7015, S/N N2118	SA351-CF8M	Quaker Alloy	
	Bonnet Ht. F6700, S/N N1885	SA351-CF8M	Quaker Alloy	
	Discs Ht. F6919, S/N N2251	SA351-CF3A	Quaker Alloy	
	Ht. F6919, S/N N2127			
(b) Forgings				

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Body/Bonnet Stud Ht. 47024	SA193-B7	REC Corp	
Body/Bonnet Nut Ht. 8067384	SA194-7	Vitro Nuclear Products, Inc.	
(d) Other Parts			
Drain Pipe, HT.#00973	SA479-316	Allegheny Ludlum Steel Corporation	
Bypass Pipe, HT.#18616	SA479-316L	Allegheny Ludlum Steel Corporation	
Vent Pipe, HT.#00973	SA479-316	Allegheny Ludlum Steel Corporation	

8. Hydrostatic test 3638 psi.

CERTIFICATION OF DESIGN

Design information on file at General Electric Co., 175 Curtner Ave., San Jose, Calif. 95125
Stress analysis report on file at Anchor/Darling Valve Co., Williamsport, Pa. 17701
Design specifications certified by Hassanali Tafarrodi (1) Prof. Eng. State Calif. Reg. No. 15110
Stress analysis report certified by Genserico M. Simeon (1) Prof. Eng. State Pa. Reg. No. 20940-E
(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 2-4 19 76 Signed Anchor/Darling Valve Co (Manufacturer) By R. L. Houseknecht
R. L. Houseknecht

Certificate of Authorization No. N779 expires 3-4-77

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/~~or~~ the State of ~~xxxxxxx~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 2-18-75 thru 2-5 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 2-5 19 76

Russell E. Montgomery (Inspector) Commissions Pennsylvania WC972 (National Board, State, Province and No.)
Russell E. Montgomery

1B33-134

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6/22/09
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
   10 Center Road, Perry, Ohio 44081 ORDER 200299722
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: 1B33 REACTOR RECIRC. SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III NB CLASS 1 1971 Edition
   NAME/SECTION/DIVISION/CLASS TGL 7/2/09
   SUMMER 19 73 Addenda Code Case(s) N-272, N-242, N-413, 1644-56, 1728

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda see abov Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition no Addenda n/a Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 n/a 19 n/a Addenda n/a Code Case(s)

   (e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	1B33	119	NA	1985	REPLACEMENT	YES

7. Description of Work: REPLACED 11 NEW 1-1/8-8 SUTDS HT. CODE "2G77", AND 31 NEW 1-1/8 NUTS (23-HT CODE "Z149", AND 8-HT CODE "TRS") DURING CHEM DECON OF REACTOR RECIRCULATION B-33 SYSTEM.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1025 psi Test Temperature 123 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9/28, 2011

Date 6/23/, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HST CT. OF HARTFORD CONN. have inspected the repair, modification or replacement described in this report on JUNE 24, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/24, 20 09 Signed (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

1B33-135

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6/24/09
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 200282000 R/0 A-2
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: 1B33 REACTOR RECIRC. SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III NB CLASS 1 1971 Edition
NAME/SECTION/DIVISION/CLASS
TGL 7/2/09
SUMMER 19 73 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda see abov Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition no Addenda n/a Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , n/a 19 n/a Addenda n/a
Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PUMP	Byron Jackson	741-S-1280	N/A	1B33 C001B		REPLACEMENT	YES

7. Description of Work: REPLACED SEAL CARTRIDGE ASSEMBLY S/N 318456 WITH NEW ASSEMBLY S/N S/N 318454

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- Other- ☒
Pressure 975 psi Test Temperature 160 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9/28, 2011

Date 6/23/, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HST CT. OF HARTFORD CONN. have inspected the repair, modification or replacement described in this report on JUNE 24 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/24, 20 09 Signed Thomas Laps (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

6/24/09 sheet 2 of 2 MR126707

1B33-104 R04(2/10)

PG. 2 of 2

Pg. 1 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 BW/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 E. VERNON AVE., VERNON, CA 90058
(name and address of NPT Certificate Holder)

2. Manufactured for THE CLEVELAND ELECTRIC ILLUMINATING CO. 10 CENTER ROAD, PERRY, OHIO 44081
(name and address of Purchaser)

3. Location of installation PERRY NUCLEAR POWER PLANT, UNIT 1 10 CENTER ROAD, DOCK NUMBER 1, NORTH PERRY, OHIO 44081
(name and address)

4. Type: LO02168 REV. A (drawing no.) SA-182 GR. F316 (mat'l. spec. no.) 75,000 PSI (tensile strength) N/A (CRN) 1996 (year built)

5. ASME Code, Section III, Division 1: * 1971 (edition) SUMMER 1973 (addenda date) 1 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A

7. Remarks: BW/IP JOB NO: 95-NE-2540 NOMENCLATURE: N-7500 SEAL CARTRIDGE ASSEMBLY.

* DESIGN, MATERIAL, FABRICATION AND EXAMINATION IN ACCORDANCE WITH 1983 EDITION SUMMER 1984 ADDENDA.

8. Nom. thickness (in.) 2.625 Min. design thickness (in.) 2.500 Dia. ID (ft & in.) 1' 7.500" Length overall (ft & in.) 0' 3.105"

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	318454	N/A
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
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(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
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(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 1650 psi. Temp. 575 °F. Hydro. test pressure 2065 PSI / 60° MIN (when applicable) at temp. °F

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

(2/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/91)

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. 318454 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

Design report* certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~(these)~~ N-7500 SEAL CARTRIDGE ASSEMBLY conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1996

Date Jan. 12, 1996 Name JOHN CRANE-INTERNATIONAL, INC. (NPT Certificate Holder) Signed J. Michael Howell (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 CALIFORNIA and employed by ARKWRIGHT MUTUAL INSURANCE CO., FACTORY MUTUAL ENGINEERING ASSOCIATION of NORWOOD, MASS. have inspected these items described in this Data Report on 01/12/96, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 01/12/96 Signed [signature] (Authorized Inspector) Commissions CA 1864, NB/C-IS (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

1C41-039

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-22-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200297167 & 200358886
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: STANDBY LIQUID CONTROL 1C41

5. (a) Applicable Construction Code: ASME Section III Class 2 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, N240, N242, N413, 1644-5, 1644-8

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1C41	108	1C41F29A	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 8 WITH VALVE S/N 2.
   SEE REMARKS

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1250 psi Test Temperature 90 degrees F Code Case(s) N-416-3

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: REPLACED PIPING USING 1.5" FLANGE HT# BXU, AND 1.5" SCH 40 PIPE HT# 466565.

ADJUSTED HANGER 1C41-H018 BY REMOVING FW-3 AND CUTTING THE 2X2 TUBE STEEL AND

REWELDING FW-3.

USED WELDING ROD ER316L HT# CT5953 & DT5953 AND ER70S-2 HT# 065905 & CP7808

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION

1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 22 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MAY 27, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/27, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

Best available copy SMF Email 4/22/09

1041-0391 SHEET 2 OF 2

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

1. Manufactured by TARGET ROCK CORP., 1966E. Broadhollow Rd., E. Farmingdale,
(Name and Address of Manufacturer)
2. Manufactured for Cleveland Electric Illuminating Co., Cleveland, Ohio
(Name and Address of Purchaser)
3. Location of Installation Perry Nuclear Power Plant, Perry, Ohio
(Name and Address)
4. --- (CRN) 1 1/2 x 2 RDH-5-3 (Drawing No.) ------ (Nat'l. Brd. No.) 1982 (Year Built)
5. Valve 76H-012 (Model No., Series No.) Identifying Nos. 2 (Manufacturer's Serial No.)
Type Relief Valve
Safety, Safety Relief, Pilot, Power Actuated
Orifice Size .500 inch Nominal Inlet Size 1 1/2 inch Outlet Size 2" inch

6. Set Pressure (PSIG) 1275 Rated Temperature 120 °F
Stamped Capacity ------ lbs/hr @ ______% Overpressure Blowdown (PSIG) ______
Sat. Steam
Hydrostatic Test (PSIG) Inlet 3250 Outlet 3250 (applicable to valves for closed systems only)
7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	300424	ASME SA479-316L
Bonnet or Yoke	300387	ASME SA479-316L
Support Rods	------	
Nozzle	202075	ASME SA479-316L
Disc	307989	ASME SA564 CR.630
Spring Washers		
Adjusting Screw		
Spindle		
Spring		
Bolting	Nut Hex 3/8-16 UNC2B	ASME SA194-2H
Other Pieces		
Flange	202074	ASME SA479-316L
Screw Sock. Hd.	3/8-16 x 1 1/2	ASME SA193-B7
Screw Sock. Hd.	102609	ASME SA193-B7

[Stamp: 4974]

* 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.

(1/76) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Best Available Copy SMF Email 7/22/09

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Sum. 1975 (Date)

Code Case No. ---.

Date 10/13/82 Signed Target Rock Corp. (Manufacturer) by [signature] Mgr. Quality

Our ASME Certificate of Authorization No. 1949 to use the NV symbol expires 12/9/83 (Date)

CERTIFICATION OF DESIGN

Design information on file at Target Rock Corporation

Stress analysis report (Class 1 only) on file at ---

Design specifications certified by[1] Jan Paul Sockel

PE State Pa. Reg. No. 20130E

Stress report certified by[1] ---

PE State --- Reg. No. ---

[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 New York and employed by Commercial Union Ins. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 10/13 19 82, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10/13 19 82

Signed [signature] (Inspector) Commissions NEW YORK STATE COMMISSION NO. 2283 ALSO COMMISSIONED IN Penn., Ohio & Conn. (Nat'l Bd., State, Prov. and No.)

1E12-304

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-30-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200261645
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: RESIDUAL HEAT REMOVAL 1E12

5. (a) Applicable Construction Code: ASME Section III Class 2 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1984	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 1-52969-B WITH VALVE S/N 1-51906-A.
   PLANT ID 1E12FOO63C.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 165 psi Test Temperature N.O.T degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 30 April, 20 09 Signed FENOC-PNPP *(name of repair organization)* Michael J Tepsick *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 30 April, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 30 April, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

Best Available Copy SMF Email 7/22/09

1E12-304 SHEET 2 OF 2

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

Pg. 1 of 2

1. Manufactured and certified by: 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: Dual Plate Check Valve Drawing: 50079-A Rev. 04 CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) (class) N/A (Code Case no.)

6. Pump or Valve: Valve Nominal inlet size: 8 (in.) Outlet size: 8 (in.)

7. Material: Body: SA216 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.
151906-A	N/A	HT # 0462 S/N V257	N/A	HT # 04B43 S/N V259 & V260

* 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 (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Best Available Copy SMF Email 7/22/09

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

Certificate Holder's Serial No. 1-5)906

8. Design conditions 500 psi (pressure) 680 (temperature) °F or valve pressure class 300 (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# 71947 TR# 1230

CERTIFICATION OF DESIGN

Design specification certified by Hilary R. Reppert P.E. State PA Reg. no. 24928-E (when applicable)

Design report certified by N/A P.E. State N/A Reg. no. N/A (when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1

N Certificate of Authorization No. N-2606 Expires 6-19-04

Date 5/12/04 Name Weir Valves and Controls USA, Inc. (N Certificate Holder) Signed [signature] (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 N/A and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 5/12/04, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 5/12/04 Signed [signature] (Authorized Inspector) Commission [illegible] (Nat'l Bd. (incl. endorsements), state, prov. and no.)

(1) For manually operated valves only

1E12-305

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-30-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200365780
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: RESIDUAL HEAT REMOVAL 1E12

5. (a) Applicable Construction Code: ASME Section III Class 2 ,1974 Edition
NAME/SECTION/DIVISION/CLASS

WINTER 19 75 Addenda Code Case(s) N272, N242, N413

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E12	NA	N/A	1985	Replacement	YES

7. Description of Work: MODIFIED SUPPORT PER ECP 09-246 BY MOVING TUBE STEEL TO A NEW ELEVATION AND REWELDING USING E7018 WELD ROD HT# 159443. PLANT ID 1E12HO588.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐

Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 30 April, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 30 April, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 30 April, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1E12 - 306

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-4-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200261986
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: RESIDUAL HEAT REMOVAL 1E12

5. (a) Applicable Construction Code: ASME Section III Class 2 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1984	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 2-52969-B WITH VALVE S/N 2-51001-A
   PLANT ID 1E12FOO63B.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 315 psi Test Temperature N.O.T degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 4 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) _____ (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 30 April, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/5, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

0002 5548 0865

1E12-306 SHEET 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 2

1. Manufactured and certified by Stevens & Morrill Co. Inc. 285 Canal St. Salem, MA
(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 Dual Plate Check Valve Drawing 55070-A Rev. 03 CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (code) N/A (Code Case no.)

6. Pump or Valve Valve Nominal inlet size 8 (in.) Outlet size 8 (in.)

7. Material: Body SA216-WCB Bonnet N/A Disk SS457-CASN12 Bolting N/A

(a) Cert. Holder's Serial No.	(b) NBTI Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
2-51001-A	N/A	HT. #: 0264 S/N: R71	N/A	HT. #: 0263 S/N: R73 & R74

* 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 6 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.

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

2500 II

0002 5540 0866

FORM NPV-1 (Back – Pg. 2 of 2)

Certificate Holder's Serial No. 2-51001-6

8. Design conditions 500 psi (pressure) 450 °F (temperature) or valve pressure class 300 (1)

9. Cold working pressure 740 psi at 100°F

10. Hydrostatic test 1125 psi. Desk differential test pressure 575 psi

11. Remarks: Pin Retainer SA 479-410 HT#: 150092 TR# 117D

CERTIFICATION OF DESIGN

Design specification certified by Hiram R. Pepperl (when applicable) P.E. State PA Reg. no. 24978-E

Design report certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2506 Expires 5-12-04

Date 7/26/02 Name Atwood & Morrill Co. Inc. (N Certificate Holder) 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/or the state or province of New York and employed by HSB CT of Hartford CT have inspected the pump, or valve, described in this Data Report on 7/26/02 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 7/26/02 Signed (Authorized Inspector) Commission NB 5070 - A N (Nat'l Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

25 of 10

1E12 - 307

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-4-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200262065
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: RESIDUAL HEAT REMOVAL 1E12

5. (a) Applicable Construction Code: ASME Section III Class 2 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E12	83	N/A	1984	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 1-52183-A WITH VALVE S/N 3-50079-A.
   PLANT ID 1E12FOO63A.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 176 psi Test Temperature N.O.T degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 4 MAY, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 30 April, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 5/5, 20 09 Signed _____ *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1E12-307 SHEET 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 2

1. Manufactured and certified by: Atwood & Morrill Co., 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 Dual Plate Check Valve Drawing 50079-A Rev. 01 CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or Valve Valve Nominal inlet size 8 (in.) Outlet size 8 (in.)

7. Material: Body SA216-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.
3-50079-A	N/A	HT. #0078 S/N: M162	N/A	HT. #C8840 S/N: 5 & 6

* 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. A-500-E-A

8. Design conditions 500 psi (pressure) 480 °F (temperature) or valve pressure class 300 (1)

9. Cold working pressure 740 psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 525 psi

11. Remarks: Pin Retainers SA 479-410 HT# : G1942 TR# 720

CERTIFICATION OF DESIGN

Design specification certified by Hiram R. Reppert (when applicable) P.E. State PA Reg. no. 24928-E

Design report certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2506 Expires 6-13-04

Date 6/29/01 Name Atwood & Morrill Co. Inc. (N Certificate Holder) 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 H. S. B. I. & I. Co. of Hartford CT have inspected the pump, or valve, described in this Data Report on JUN 29, 2001 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 6/29/01 Signed (Authorized Inspector) Commission MA-1337 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6/8/2009
   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 order 200261987
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 2/28/2011

4. Identification of System: 1E12 Residual Heat Removal

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) 1644-5, 1728, N-224, N-242, N-272, N-275, N-282, N-416-1, N-413

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda N/A Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition NONE Addenda N/A Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , N/A 19 N/A Addenda N/A Code Case(s)

   (e) Design Responsibilities First Energy Corp

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power	1E12	83	N/A	1985	replacement	yes

7. Description of Work Replaced 6" diameter check valve with new check valve S/N 3-52969-A

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 161 _ psi Test Temperature AMB___ 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: NA

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept. 20 2011

Date 6/8/2009 Signed FENOC-PNPP *(name of repair organization)* [signature] *(authorized representative)* QC *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on June 6, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/10, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

IEB-308 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

1. 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 Dual Plate Check Valve Drawing 11949-01 Rev. 04 CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or Valve Valve Nominal inlet size 6 (in.) Outlet size 6 (in.)

7. Material: Body SA216-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.
3-52969-A	N/A	HT. #:87643 RT#: 75244	N/A	HT. #:87506 RT#: 75221 & 75222

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

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

FORM NPV-1 (Back – Pg. 2 of 2)

Certificate Holder' s Serial No. 3-52959-A

8. Design conditions 740 (pressure) psi 100 (temperature) °F or valve pressure class 300 (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 DESIGN

Design specification certified by Hiram R. Reppert (when applicable) P.E. State PA Reg. no. 24928-E

Design report certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that 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 11/2/06 Name WEIR VALVES & CONTROLS USA INC. Signed

(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 11/2/06 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 11/2/06 Signed MA 1651 A,B,N,I

Commission

(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

1E12 - 309

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-16-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200367342
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: RESIDUAL HEAT REMOVAL 1E12

5. (a) Applicable Construction Code: ASME Section III Class 2 (NAME/SECTION/DIVISION/CLASS) 1977 Edition
SUMMER 19 77 Addenda Code Case(s) NONE

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 75 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	DRESSER	H110AAS	N/A	1E12 F0084B	1981	Replacement	YES

7. Description of Work: REBUILT VALVE S/N H110AAS USING SPRING AND DISC FROM VALVE S/N H109AAS.

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

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 16 JUNE, 20 09 Signed FENOC-PNPP (name of repair organization) Michael J Tepsick (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on JUNE 22 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/22, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

Best Available Copy SMF Email 4/22/09

1E72-S07 Sheet 1 of 3

INDUSTRIAL VALVE OPERATIONS DRESSER

ALEXANDRIA, LOUISIANA

15740

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)

1. MANUFACTURED BY INDUSTRIAL VALVE OPERATIONS, DRESSER INDUSTRIES, INC. HIGHWAY 3I NORTH ALEXANDRIA, LA
(NAME AND ADDRESS OF N CERTIFICATE HOLDER)

2. MANUFACTURED FOR Cleveland Elec. Illuminating P.O. Box 5000, Cleveland, OH 44101
(NAME AND ADDRESS OF PURCHASER OR OWNER)

3. LOCATION OF INSTALLATION Perry Nucl Pwr. Plant, 10 Center Rd., No. Perry, OH 44081
(NAME AND ADDRESS)

4. PUMP OR VALVE 1-1/2"-5580W-1-XSE1-NC087 NOMINAL INLET SIZE 1-1/2 (INCH) OUTLET SIZE 1-1/2 (INCH)

	(a) MODEL NO. SERIES NO. OR TYPE	(b) N CERTIFICATE HOLDERS' SERIAL NO.	(c) CANADIAN REGISTRATION NO.	(d) DRAWING NO.	(e) CLASS	(f) NAT'L BD NO.	(g) YEAR BUILT
(1)	5580W	H110AAS		1NC087	2		1981
(2)	5580W	H111AAS		1NC087	2		1981
(3)	5580W	H112AAS		1NC087	2		1981
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Designed for Steam, Water or Air Service
(BRIEF DESCRIPTION OF SERVICE FOR WHICH EQUIPMENT WAS DESIGNED)

6. DESIGN CONDITIONS 940 (PRESSURE) PSI 700 (TEMPERATURE) °F OR VALVE PRESSURE CLASS ______ (1)

7. COLD WORKING PRESSURE 1440 PSI AT 100°F

8. PRESSURE RETAINING PIECES

MARK NO.	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(A) CASTINGS			
(B) FORGINGS			
H4	SA105	Cape Ann Tool Co.	Body
K7	SA105	Cape Ann Tool Co.	Cap

National Board / Commonwealth 5694

(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 3 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 NO. QA-0053-1232

Best Available Copy SMF Email 7/22/09

MARK NO.	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(c) BOLTING			
6077798	SA193 Gr. B7	Texas Bolt	Cap Studs
(c) 437574	SA194 Gr. 2H	Texas Bolt	Cap Stud Nuts
(d) OTHER PARTS			
G9602	ASTM A276 Gr. 410	Universal Cyclops	Valve
**See Below			
Seat Tested @ 1500 PSIG			
Shell Tested @ 2175 PSIG			

9. HYDROSTATIC TEST ** PSI
PNEUMATIC TEST N/A

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE ON THIS REPORT ARE CORRECT AND THAT THIS PUMP OR VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS SECTION III DIV. 1 EDITION 1977 ADDENDA Summer 1977 CODE CASE NO. N/A DATED 7-22-81

SIGNED DVO, Dresser Ind., Inc. BY [signature]
(N CERTIFICATE HOLDER) Principal Quality Assurance Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1746 TO USE THE N SYMBOL EXPIRES 5-20-83
(DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, La.

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY (1) Jan Paul Socket
PE STATE Pennsylvania REG. NO. 20130-E

STRESS ANALYSIS CERTIFIED BY (1)
PE STATE REG. NO.

(1) SIGNATURE NOT REQUIRED. LIST NAME ONLY.

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF OHIO AND EMPLOYED BY THE HARTFORD STEAM BOILER I. & I. CO. OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 7-22 81 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.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 7-22 19 81

[signature]
(INSPECTOR)

COMMISSIONS Ohio Commission 253-77
(NB, STATE, PROV. AND NO.)

FORM NO. N1-0053-0779

Best available copy SMF Email 4/22/09

1EL2 309 SHEET 3 OF 3

INDUSTRIAL VALVE OPERATIONS DRESSER
ALEXANDRIA, LOUISIANA 71301

16740

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)

1. MANUFACTURED BY INDUSTRIAL VALVE OPERATIONS, DRESSER INDUSTRIES, INC. HIGHWAY 71 NORTH, ALEXANDRIA, LA.
(NAME AND ADDRESS OF N CERTIFICATE HOLDER)

2. MANUFACTURED FOR Cleveland Elec. Illuminating P.O. Box 5000, Cleveland, OH 44101
(NAME AND ADDRESS OF PURCHASER OR OWNER)

3. LOCATION OF INSTALLATION Perry Nuc. Pwr. Plant, 10 Center Rd. No. Perry, OH 44081
(NAME AND ADDRESS)

4. PUMP OR VALVE 1-1/2"-5580W-1-XSL1-NC087 NOMINAL INLET SIZE 1-1/2 (INCH) OUTLET SIZE 1-1/2 (INCH)

(a) MODEL NO. SERIES NO. OR TYPE	(b) N CERTIFICATE HOLDERS' SERIAL NO.	(c) CANADIAN REGISTRATION NO.	(d) DRAWING NO.	(e) CLASS	(f) NAT'L BD NO.	(g) YEAR BUILT
(1) 5580W	H107AAS		1NC087	2		1981
(2) 5580W	H108AAS		1NC087	2		1981
(3) 5580W	H109AAS		1NC087	2		1981
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Designed for Steam, Water or Air Service
(BRIEF DESCRIPTION OF SERVICE FOR WHICH EQUIPMENT WAS DESIGNED)

6. DESIGN CONDITIONS 940 PSI (PRESSURE) 700 °F (TEMPERATURE) OR VALVE PRESSURE CLASS (1)

7. COLD WORKING PRESSURE 1440 PSI AT 100°F

8. PRESSURE RETAINING PIECES

MARK NO.	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(A) CASTINGS			
(B) FORGINGS			
H4	SA105	Cape Ann Tool Co.	Body
K7	SA105	Cape Ann Tool Co.	Cap

COMMONWEALTH 5694

(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.

FORM NO. QA-0059-1278

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Best Available Copy SMF Email 7/22/09

SUMMARY (DATA)

MARK NO.	MATERIAL SPEC NO	MANUFACTURER	REMARKS
(c) BOLTING			
6077798	SA193 Gr. B7	Texas Bolt	Cap Studs
KB7574	SA194 Gr. 2H	Texas Bolt	Cap Stud Nuts
(d) OTHER PARTS			
G1109	ASTM A276 Cr. 410	Universal Cyclops	Valve

**See Below.
Seat Tested @ 1500 PSIG.
Shell Tested @ 2175 PSIG.

9. HYDROSTATIC TEST: [illegible] PSI
DISK DIFFERENTIAL TEST PRESSURE: N/A PSI

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS PUMP OR VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS SECTION III DIV. 1 EDITION 1977 ADDENDA Summer 1977 CODE CASE NO. N/A DATE 7-22-81 (DATE)

SIGNED JVO, Dresser Ind., Inc. BY [signature] Principal Quality Assurance Engineer
(NC CERTIFICATE HOLDER) (TITLE)

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1746 TO USE THE N (NO) SYMBOL EXPIRES 5-20-83 (DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, Ind.

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY (1) Jan-Paul Sorkel

PE STATE Pennsylvania REG. NO. 20130-E

STRESS ANALYSIS CERTIFIED BY (1)

PE STATE REG. NO.

(1) SIGNATURE NOT REQUIRED - LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF OHIO AND EMPLOYED BY THE HARTFORD STEAM BOILER I & I CO. OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 7-22 TO [illegible] 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 SECTION III.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 7-22-81 [signature] Ohio Commission 2-3-77
(INSPECTOR) (NAT'L BD., STATE, PROV. AND NO.)

FORM NO. HX-0053-0795

1E12-310

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NOI-1741

1. Owner: FIRSTENERGY CORP. Date 6/25/2009
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 Order 200199140
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9/28/2011

4. Identification of System: 1E12 Residual Heat Removal

5. (a) Applicable Construction Code: ASME SECTION III CLASS 1 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
WINTER 19 75 Addenda Code Case(s) 1644-5, 1728, N-224, N-242, N-272, N-275, N-282, N-416-1, N-413

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W75 (Addenda) N/A (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) NONE (Addenda) N/A (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , N/A 19 N/A Addenda N/A (Code Case(s))

(e) Design Responsibilities First Energy Corp

6. *Identification of Components Repaired, Modified, or Replacement Components*

Name of *Component*	Name of *Manufacturer*	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power	1E12	83	N/A	1985	Replacement	yes

7. Description of Work: Modified piping system for cross tie in of 1E12/1P11as part of ADHR modification per ECP 04-0270-01 using the following ASME parts: 8' of 8" SA-312 304 Sch. 40 pipe Ht. Tr.# 930168, 1- 12"x 8" Reducing Tee Ht. Tr.# MCWZ-2, 1- 8" 150# Gate Valve S/N BE499, and 1- 8" S/40S Pipe Elbow Ht Tr.# MJRG-1 using weld rod Ht. # P2765, DM7832, 8882.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure NOP psi Test Temperature 95 degrees F Code Case(s) ~~N/A~~ N-416-3
6/26/09

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

PNPP No. 5308 Rev. 9/11/00 NQI-1741

9. Remarks: NA

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept. 20 2011

Date 6/25/2009 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on JUNE 26 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/26, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

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

4. Model No., Series No., or Type 150 Drawing 06-40687-10 Rev. B CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 8 (in.) Outlet size 8 (in.)

7. Material:
(a) valve Body SA351, CF8 Bonnet SA351, CF8 Disk SA351, CF8 Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
BE499	N/A	CJHR-4	BZBL-1	BXXX-1

~~TE-12-310 PP 2of2~~
Qum 6/26/09

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BE499

8. Design conditions 150 (pressure) psi 212 (temperature) °F or valve pressure class 150

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 325 psi

11. Remarks: Sales Order 40587 Item 10
Bolting is as follows: Studs. SA 193-B7, Ht Trace Code Z833
Nuts. SA194-2H, Heat Trace Code OW62

CERTIFICATION OF DESIGN

Design Specification certified by W. Flensburg P.E. State OH Reg. no. 49729

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 3/12/08 Name Flowserve Corporation (N Certificate Holder) Signed [signature] (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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 3/12/08, 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 3/12/08 Signed [signature] (Authorized Nuclear Inspector) Commissions NC1549 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E12-311

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 7-2-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 6

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
10 Center Road, Perry, Ohio 44081 ORDER 200199137
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-28-2011

4. Identification of System: 1E12 RESIDUAL HEAT REMOVAL

5. (a) Applicable Construction Code: ASME SECTION III Class 2 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) N-242,N-224,N-272,N-413,1644-5,1728,N275, N282 *

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

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition; no Addenda; n/a Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , n/a 19 n/a Addenda n/a Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
Piping System	Pullman Power	1E12	83	1E12	1985	Replacement	Yes

7. Description of Work: See remarks section

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure x Other- ☐
Pressure 145 psi Test Temperature 61 degrees F Code Case(s) N-416-3

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: Modifications made for the ADHR system per requirements of ECP 04-0270 -01 using the following ASME parts: 10" PIPE HT# A20028 & B66952, 10" GATE VALVE S/N BE555 & BE469, SWAY STRUTS S/N 2006-126, 2006-128, 2006-138 2006-140, 2006-143, 4X4X1/4 STEEL TUBE HT# L2379, ¼" PLATE HT # 8103343, 11/4" PLATE HT # 6103685, SNUBBER S/N 04616493/072, 10" 90 DEG. ELB HT # S307AA, & N232E, TEE 18"X10"X18" HT# 2B3E1D3W4, TEE 16"X10"X16" HT# 2B3E1A3F4, ½" PLATE HT # U8551/1A, LOAD STUD PSA 10 HT #CMN, JAM NUT PSA 10 HT 3 BSL.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-28, 20 11

Date 2 July, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on 2 July, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 2 July, 20 09 Signed (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

1E12-311 2 OF 6

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

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

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

4. Model No., Series No., or Type 300 Drawing 05-40687-02 Rev. E CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)

7. Material:
(a) valve Body SA216-WCB Bonnet SA216-WCB Disk SA216-WCB Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
BESS5	N/A	BYGV-1	CCNN-9	BXXW-3

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

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BE555

8. Design conditions 600 (pressure) psi 212 (temperature) °F or valve pressure class 300

9. Cold working pressure 720 psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 750 psi

11. Remarks: Sales Order 40587 Item 005
Bolting is as follows: Studs, SA 193-B7, Ht Trace Code Z876
Nuts, SA194-2H, Heat Trace Code Z831

CERTIFICATION OF DESIGN

Design Specification certified by W. Flensburg P.E. State OH Reg. no. 49729

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 5/29/08 Name Flowserve Corporation (N Certificate Holder) Signed Clarence R. Hinman (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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 5/29/08, 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 5/29/08 Signed _____ (Authorized Nuclear Inspector) Commissions NC1549 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E12-311 3 of 6

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

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

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

4. Model No., Series No., or Type 300 Drawing 06-40687-02 Rev. E CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)

7. Material:
(a) valve Body SA216-WCB Bonnet SA216-WCB Disk SA216-WCB Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Dist Serial No.
BE469	N/A	BYGT-1	CCNN-10	BXKW-2

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

2

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BE469

8. Design conditions 200 (pressure) psi 358 (temperature) °F or valve pressure class 300

9. Cold working pressure 720 psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 750 psi

11. Remarks: Sales Order 40587 Item 003
Bolting is as follows: Studs, SA 193-B7, Ht Trace Code Z876
Nuts, SA194-2H, Heat Trace Code Z831

CERTIFICATION OF DESIGN

Design Specification certified by W. Flensburg P.E. State OH Reg. no. 49729

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 1/31/08 Name Flowserve Corporation (N Certificate Holder) 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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 1-31-08, 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 1-31-08 Signed (Authorized Nuclear Inspector) Commissions NC1549 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

1E12-311 4 of 6

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

1. Manufactured by Anvil International, Inc. - 160 Frenchtown Rd. No.Kingstown, RI 02852
(name and address of NPT Certificate Holder)

2. Manufactured for. First Energy, Perry Nuclear Power Plant, 10 Center Road, North Perry, OH 44081
(name and address of Purchaser)

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

4. Type: C.S.S. (describe) DRS 211 REV.3 (Design Report or Load Capacity Data Sheet) 2006 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 1 (class) N-249-13 (Code Case no.)

6. Identification

	(a) Component Support I.D. No.	(b) Material Specification No.	(c.) Canadian Registration No.	(d) Applicable Drawings With Last Rev. & Date	(e) National Board No.
(1)	2006- 126	Note 1	N/A	CH-1077/I 12/31/98	N/A
(2)	2006- 127	Note 1	N/A	CH-1077/I 12/31/98	N/A
(3)	2006- 128	Note 1	N/A	CH-1077/I 12/31/98	N/A
(4)	2006- 129	Note 1	N/A	CH-1077/I 12/31/98	N/A
(5)	2006- 130	Note 1	N/A	CH-1077/I 12/31/98	N/A
(6)	2006- 131	Note 1	N/A	CH-1077/I 12/31/98	N/A
(7)	2006- 132	Note 1	N/A	CH-1077/I 12/31/98	N/A
(8)	2006- 133	Note 1	N/A	CH-1077/I 12/31/98	N/A
(9)	2006- 134	Note 1	N/A	CH-1077/I 12/31/98	N/A
(10)	2006- 135	Note 1	N/A	CH-1077/I 12/31/98	N/A

7. Remarks:

Note 1: SA36, SA106 GR.B, SA563 GR.A, SA193 GR.B7, SA216 GR.WCB, SA307 GR.A

PO#: 45194933

SO#: 41-74740

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

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

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

Component Support I.D. Nos. 2006-126 through 2006-135

CERTIFICATE OF DESIGN

Design Specification certified by H. R. Sonderegger P.E. State R.I. Reg. no 3537

Design Report certified by Frank J. Birch P.E. State R.I. Reg. no 4149

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2802 Expires 9/29/2007

Date 7/24/06 Name Anvil International, Inc. (NPT Certificate Holder) Signed [signature]

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Rhode Island and employed by H.S.B. C.T.

of Hartford, C.T. have inspected the component supports described in this Data Report on 7/24/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed these component supports 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 supports described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/24/06 Signed [signature] (Authorized Inspection) Commissions RI 862 ASNT (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E12-311 5 OF 6

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

1. Manufactured by Anvil International, Inc. - 160 Frenchtown Rd. No.Kingstown, RI 02852
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy, Perry Nuclear Power Plant, 10 Center Road, North Perry, OH 44081
(name and address of Purchaser)

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

4. Type: C.S.S. (describe) DRS 211 REV.3 (Design Report or Load Capacity Data Sheet) 2006 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 1 (class) N-249-13 (Code Case no.)

6. Identification

	(a) Component Support I.D. No.	(b) Material Specification No.	(c.) Canadian Registration No.	(d) Applicable Drawings With Last Rev. & Date	(e) National Board No.
(1)	2006- 136	Note 1	N/A	CH-1077/I 12/31/98	N/A
(2)	2006- 137	Note 1	N/A	CH-1077/I 12/31/98	N/A
(3)	2006- 138	Note 1	N/A	CH-1077/I 12/31/98	N/A
(4)	2006- 139	Note 1	N/A	CH-1077/I 12/31/98	N/A
(5)	2006- 140	Note 1	N/A	CH-1077/I 12/31/98	N/A
(6)	2006- 141	Note 1	N/A	CH-1077/I 12/31/98	N/A
(7)	2006- 142	Note 1	N/A	CH-1077/I 12/31/98	N/A
(8)					
(9)					
(10)					

7. Remarks:

Note 1: SA36, SA106 GR.B, SA563 GR.A, SA193 GR.B7, SA216 GR.WCB, SA307 GR.A

PO#: 45194933

SO#: 41-74740

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

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

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

Component Support I.D. Nos. 2005-135 through 2005-142

CERTIFICATE OF DESIGN

Design Specification certified by H. R. Sonderegger P.E. State R.I. Reg. no 3537

Design Report certified by Frank J. Birch P.E. State R.I. Reg. no 4149

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2802 Expires 9/29/2007

Date 7/24/06 Name Anvil International, Inc. (NPT Certificate Holder) Signed [signature]

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Rhode Island and employed by H.S.B. C.T.

of Hartford, C.T. have inspected the component supports described in this Data Report on 7/24/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed these component supports 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 supports described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/24/06 Signed [signature] (Authorized Inspection) Commissions RI 862 ANI (Nat'l Bd. (Incl. endorsements) and state or prov. and no.)

1E12-311 6 OF 6

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

1. Manufactured by Anvil International, Inc. - 160 Frenchtown Rd. No.Kingstown, RI 02852
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy, Perry Nuclear Power Plant; 10 Center Road, North Perry, OH 44081
(name and address of Purchaser)

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

4. Type: C.S.S. (describe) DRS 210 REV.5 (Design Report or Load Capacity Data Sheet) 2006 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 1 (class) N-249-13 (Code Case no.)

6. Identification

	(a) Component Support I.D. No.	(b) Material Specification No.	(c.) Canadian Registration No.	(d) Applicable Drawings With Last Rev. & Date	(e) National Board No.
(1)	2006- 143	Note 1	N/A	210-10000/C 11/16/04	N/A
(2)	2006- 144	Note 1	N/A	210-10000/C 11/16/04	N/A
(3)	2006- 145	Note 1	N/A	210-10000/C 11/16/04	N/A
(4)	2006- 146	Note 1	N/A	210-10000/C 11/16/04	N/A
(5)					
(6)					
(7)					
(8)					
(9)					
(10)					

7. Remarks:

Note 1: SA36, SA106 GR.B, SA563 GR.A

PO#: 45194933

SO#: 41-74740

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

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

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

Component Support I.D. Nos. 2006-143 through 2006-146

CERTIFICATE OF DESIGN

Design Specification certified by H. R. Sonderegger P.E. State R.I. Reg. no 3537

Design Report certified by Frank J. Birch P.E. State R.I. Reg. no 4149

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2802 Expires 9/29/2007

Date 7/24/06 Name Anvil International, Inc. (NPT Certificate Holder) Signed [signature]

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Rhode Island and employed by H.S.B. C.T. of Hartford, C.T. have inspected the component supports described in this Data Report on 7/24/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed these component supports 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 supports described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/24/06 Signed [signature] (Authorized Inspection) Commissions RI 862 ABNI (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E21-040

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 3-21-08
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2 TGY 7/2/08

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
10 Center Road, Perry, Ohio 44081 ORDER 200298919
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-28-2008

4. Identification of System: 1E21 Low Pressure Core Spray

5. (a) Applicable Construction Code: ASME SECTION III Class 2 ,1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) N-242,N-224,N-272,N-413,N-247,1644-5,1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda see abov Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition no Addenda n/a Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 n/a 19 n/a Addenda n/a
Code Case(s)

(e) Design Responsibilities: First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	1E21	85	N/A	1985	RPL	Yes

7. Description of Work: Permanently removed support 1E21H0022 and reworked support No 1E21H0024 by removing snubber, S/N 14288 per ECP 04-0270-01.

8. Test Conducted: Hydrostatic [ ] Pneumatic [X] Nominal Operating Pressure [ ] Other [ ]
Pressure N/A psi Test Temperature degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

N/A

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR" stamp expires 9-28-20 08

Date 3-21-20 08 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MARCH 21, 20 08, and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 3-21-20 08 Signed [signature] (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements) and jurisdiction, and no.)

1E21-041

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-18-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200218275
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: RESIDUAL HEAT REMOVAL 1E12

5. (a) Applicable Construction Code: ASME Section III Class 2 1974 Edition
NAME/SECTION/DIVISION/CLASS
WINTER 19 75 Addenda Code Case(s) *N-242, N-224, N-272, N-413, 1644-5, 1728

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

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E21	N/A	1E21F018	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 1 WITH VALVE S/N 2.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 424 psi Test Temperature 77 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

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

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

CERTIFICATE OF COMPLIANCE

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

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 18 JUNE, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair; modification or replacement described in this report on June 24, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/24, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

IE21-041 SHEET 2 OF 2

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*

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

1. Manufactured by Target Rock Corporation 1966 E. Broadhollow Rd E. Farmingdale, N.Y. 11735
(Name and Address of N Certificate Holder)

2. Manufactured for Cleveland Electric Illuminating Co., Cleveland Ohio
(Name and Address of Purchaser or Owner)

3. Location of Installation Perry Nuclear Power Plant, Perry, Ohio
(Name and Address)

4. ----- (CRN) 1 1/2 x 2 REF-C-7 (Drawing No.) ----- (Nat'l. Bd. No.) 1982 (Year Built)

5. Valve 76H-007A (Model No., Series No.) Identifying Nos. 2 (N Certificate Holder's Serial No.)

Type Relief Valve
Safety, Safety Relief, Pilot, Power Actuated

Orifice Size 1.00 inch Nominal Inlet Size 1 1/2 inch Outlet Size 2 inch

6. Set Pressure (PSIG) 525 Rated Temperature 500 °F

Stamped Capacity * (Set Steam) lbs/hr @ ----- % Overpressure Blowdown (PSIG) 588/508

Hydrostatic Test (PSIG) Inlet 425 Outlet 425
(Applicable to valves for closed systems only)

7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	300425-1	ASME SA-105
Bonnet or Yoke	300391-1	ASME SA-105
Support Rods		
Nozzle	300831-F	ASME SA 479-316L
Disc	202085-1	ASME SA 564 G.R. 630. SS 17-4PH
Spring Washers	-----	-----
Adjusting Screw	-----	-----
Spindle	-----	-----
Spring	-----	-----
Bolting	-----	-----
Other Pieces		-----
Flange	202096	ASME SA-105
Screw 3/8-16 x1 1/2		ASME SA-193-B7
Screw Sock Hd	202609	ASME SA193-B7
Nut 3/8-16 UNC 2B		ASME SA 194-2H

* Water Capacity: 267 GPM at 110% set press.

* 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.

D. W. GROW

JAN 4 1983

(10/77) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NV-1 (Back)

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. 1975 (Date)
Code Case No. ------.

Date 11-8-82 Signed Target Rock Corporation (N Certificate Holder) by R. Buchalter for G. Abruzzo, Mngr. of Quality

Our ASME Certificate of Authorization No. 1949 to use the NV (NV) symbol expires 12/9/83 (Date).

CERTIFICATION OF DESIGN

Design information on file at Target Rock Corporation

Stress analysis report (Class 1 only) on file at ------

Design specifications certified by[1] Jan Paul Lockel

PE State PA Reg. No. 20130E

Stress report certified by[1] ------

PE State ------ Reg. No. ------

[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 New York and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11/9 19 82 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 11/9 19 82

Signed William C. Baker (Inspector) Commissions NEW YORK STATE COMMISSION NO. 2256 ALSO COMMISSIONED IN Penn., Ohio & Conn. (Nat'l. Bd., State Prov. and No.)

D. W. GROW
JAN 4 1983

1E21-042

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6/23-09
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 200257510
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-28-2011

4. Identification of System: 1E21 Low Pressure Core Spray

5. (a) Applicable Construction Code: ASME SECTION III Class 2 1974 Edition
NAME/SECTION/DIVISION/CLASS

WINTER 19 75 Addenda Code Case(s) N-242,N-224,N-272,N-413,1644-5,1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda see abov Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition no Addenda n/a Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , n/a 19 n/a Addenda n/a Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	1E21	85	1E21	1985	RPL	Yes

7. Description of Work: REPLACED WATER LEG PUMP S/N 021-1 WITH NEW WATER LEG PUMP S/N 1A021.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- X Other- ☐
Pressure 46 psi Test Temperature 77 degrees F Code Case(s) N/A

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

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

N/A

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded 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 8-28, 20 08

Date 6/23, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on June 23, 2009 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

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

Date 6/24, 20 09 Signed Thomas H Laps (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

BEST AVAILABLE COPY 7/9/09

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

1. Manufactured by Bingham-Willamette Co., 2800 NW Front Ave., Portland, Oregon 97210
(Name and Address of Manufacturer)

2. Manufactured for Gilbert Commonwealth/Cleveland Electric Illuminating
(Name and Address of Purchaser or Owner)

3. Location of Installation Perry Nuclear Power Plant Units 1 & 2
(Name and Address)

4. Pump or Valve Pump Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) Manufacturer's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	CAD	1A021	NA	FD-1A015/22	II	NB-801	1980
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Water Leg Pump
(Brief description of service for which equipment was designed)

6. Design Conditions 150 (Pressure) psi 140 (Temperature) °F or Valve Pressure Class II (1)

7. Cold Working Pressure 150 psi at 100 °F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
1172-77-8	SA 351 CF8	Quali-Cast	Case
1173-77-6	SA 351 CF8	Quali-Cast	Stuffing Box
1147-77-3	SA 351 CF8	Quali-Cast	Seal Gland
(b) Forgings			

S.O. [illegible]
ITEM [illegible]
PAGE 1 of 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 is recorded at top of this form.

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

Best Available Copy SMF Email 7/22/09

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
B784	SA-193-B7	Metrix	Stud, Case
B785	SA-194-2H	Metrix	Nut, Case
D124	SA-193-B8M	Metrix	Stud, Gland
B787	SA-194-B8M	Metrix	Nut, Gland
A	SA-449-Cl.2	Metrix	Capscrew, Bracket, Mo[illegible]
A	SA-325-Tp.1	Metrix	Bolt, Pump
0610	SA-193-B7	Metrix	Taper Pin
P-0-1-45565	SA-192-304	Tamilian	Plug, Drain
(d) Other Parts (Seal Circulation Piping)			
TH4051E	SA-312-304	Tubel Sales	Pipe
V110	SA-182-304	Tamilian	Tee
V1107	SA-182-304	Tamilian	Elbow
VHY	SA-182-304	Tamilian	Plug
20617	SA-182-304	Metrix	Orifice
VDO-VFA-VKO	SA-182-304	Tamilian	Union

9. Hydrostatic test 3225/900 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, edition 1974

Addenda W'76 (Date) Code Case No. NA Date 1/22/80

Signed Bingham-Willamette Company (Manufacturer) by [illegible]

Our ASME Certificate of Authorization No. N-1654 to use the N (N) (NPV) symbol expires 2/28/83 (Date)

CERTIFICATION OF DESIGN

Design information on file at Bingham-Willamette Company

Stress analysis report (Class 1 only) on file at NA

Design specifications certified by (1) Hiram R. Reppert

PE State Penn Reg. No. 21928

Stress analysis certified by (1) Paul O'Dwyer, Van Gulik Asso.

PE State Oregon Reg. No. 6261

(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 Oregon and employed by Department of Commerce have inspected the pump, or valve, described in this Data Report on 4/23 1980 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 4-23-80

[illegible] (Inspector) Commissions [illegible] (Nat'l Bd., State, Prov. and No.)

1E21-043

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

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 7-1-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 6

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
   10 Center Road, Perry, Ohio 44081 ORDER 200199135
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09-28-2011

4. Identification of System: 1E21 Low Pressure Core Spray

5. (a) Applicable Construction Code: ASME SECTION III Class 2 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N-242,N-224,N-272,N-413,1644-5,1728*

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

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) no (Addenda) n/a (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , n/a 19 n/a Addenda n/a
   *Code Case(s)

   (e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	1E21	85	1E21	1985	Replacement	Yes

7. Description of Work: See remarks section

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure x Other- ☐
   Pressure 321 psi Test Temperature 76 degrees F Code Case(s) N-416-3

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: Modifications made for the ADHR system per requirements of ECP 04-0270 -01 using the following ASME parts: (12')-10 "dia. Sch. 40 SA106 pipe Ht # B66952, (12')-10 "dia. Sch. 40 SA106 pipe Ht.# A20028, (2)-150 # 10" gate valves S/N BE467, BA780, (2)-300# 10" Sch. 40 gate valves S/N BE465, BA773, (1)- pipe weldolet 24"x10" Ht # 4036ANF,(2) 24" dia. 150 psi Flanges Ht # 207K740, and (1) Sway Strut SZ-2 S/N 2006-116 & 117, 1" plate Ht# U8493/2E, tee Ht# S609, 24" pipe Ht# B67599, 40 studs 1"-8 Ht# 2J200 and 80 nuts 1"-8 Ht#10280, using weld rod HT # CP7808, 065735,789X,065767,42379,065905,159443.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-28, 20 11

Date 1 July, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT., of Hartford , Conn. have inspected the repair, modification or replacement described in this report on 1 July, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 1 July, 20 09 Signed Thomas H Laps (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

1E21-0432 OF 6

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 10 Center Road Perry, OH 44081
(name and address)

4. Model No., Series No., or Type 300 Drawing 06-40687-02 Rev. E CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)

7. Material:
(a) valve Body SA216-WCB Bonnet SA216-WCB Disk SA216-WCB Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
BE465	N/A	BYGR-1	BYCC-2	BXKW-5

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

2

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BE465

8. Design conditions 600 (pressure) psi 212 (temperature) °F or valve pressure class 300

9. Cold working pressure 720 psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 750 psi

11. Remarks: Sales Order 40687 Item 004
Bolting is as follows: Studs, SA 193-B7, Ht Trace Code Z876
Nuts, SA194-2H, Heat Trace Code Z831

CERTIFICATION OF DESIGN

Design Specification certified by W. Flensburg P.E. State OH Reg. no. 49729

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 1/21/08 Name Flowserve Corporation (N Certificate Holder) 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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 1-31-08, 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 1-31-08 Signed (Authorized Nuclear Inspector) Commissions NC1549 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

IE21-043 3 OF 6

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 10 Center Road Perry, OH 44081
(name and address)

4. Model No., Series No., or Type 300 Drawing 08-40687-02 Rev. D CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)

7. Material:
(a) valve Body SA216-WCB Bonnet SA216-WCB Disk SA216-WCB Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
BA773	N/A	BWGK-1	BWFK-1	BWSK-1

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

2

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BA773

8. Design conditions 200 (pressure) psi 358 (temperature) °F or valve pressure class 300

9. Cold working pressure 720 psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 750 psi

11. Remarks: Sales Order 40687 Item 002
Bolting is as follows: Studs, SA 193-B7, Ht Trace Code Z876
Nuts, SA194-2H, Heat Trace Code Z831

CERTIFICATION OF DESIGN

Design Specification certified by W. Flensburg P.E. State OH Reg. no. 49729

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 4/28/07 Name Flowserve Corporation (N Certificate Holder) Signed [signature] (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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4/27/07, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4/28/07 Signed [signature] (Authorized Nuclear Inspector) Commissions NC#1421 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E21-0434 OF 6

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 10 Center Road Perry, OH 44081
(name and address)

4. Model No., Series No., or Type 150 Drawing 06-40687-08 Rev. C CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)

7. Material:
(a) valve Body SA216-WCB Bonnet SA216-WCB Disk SA216-WCB Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
BE457	N/A	BYFS-1	BYGP-1	BXZW-1

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

2

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BE467

8. Design conditions 100 (pressure) psi 212 (temperature) °F or valve pressure class 150

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 300 psi

11. Remarks: Sales Order 40587 Item 009
Bolting is as follows: Studs, SA 193-B7, Ht Trace Code Z843
Nuts, SA194-2H, Heat Trace Code Z634 (QTY. 11) & 584 (QTY. 1)

CERTIFICATION OF DESIGN

Design Specification certified by W. Flensburg P.E. State OH Reg. no. 49729

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 2/5/08 Name Flowserve Corporation (N Certificate Holder) Signed W.D.Rs (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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 2-5-08, 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 2-5-08 Signed _____ (Authorized Nuclear Inspector) Commissions NC1549 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1B21-043 5 of 6

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corporation PO Box 6100 Johnstown, PA 15907-6100
(name and address of Purchaser)

3. Location of installation Perry Nuclear Power Plant 10 Center Road Perry, OH 44081
(name and address)

4. Model No., Series No., or Type 150 Drawing 06-40687-08 Rev. C CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 10" (in.) Outlet size 10" (in.)

7. Material:
(a) valve Body SA216-WCB Bonnet SA216-WCB Disk SA216-WCB Bolting SA193-B7
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
BA780	N/A	BXMB-1	BWWB-1	BWKC-1

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

2

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BA780

8. Design conditions 100 (pressure) psi 212 (temperature) °F or valve pressure class 150

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 300 psi

11. Remarks: S.O. 40687 ITEM 8
BOLTING IS AS FOLLOWS: STUDS, SA193-B7, Ht# Z843; NUTS, SA194-2H, Ht# Z834

CERTIFICATION OF DESIGN

Design Specification certified by W. FLENSBURG P.E. State OH Reg. no. 49729

Design Report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 4/28/07 Name Flowserve Corporation (N Certificate Holder) 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 NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4/27/07, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4/28/07 Signed (Authorized Nuclear Inspector) Commissions NC 1421 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E21-043 6 of 6

FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS'
As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

1. Manufactured by Anvil International, Inc. - 160 Frenchtown Rd. No.Kingstown, RI 02852
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy, Perry Nuclear Power Plant, 10 Center Road, North Perry, OH 44081
(name and address of Purchaser)

3. Location of installation First Energy, Perry Nuclear Power Plant, 10 Center Road, North Perry, OH 44081
(name and address)

4. Type: C.S.S. (describe) DRS 211 REV.3 (Design Report or Load Capacity Data Sheet) 2006 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 1 (class) N-249-13 (Code Case no.)

6. Identification

	(a) Component Support I.D. No.	(b) Material Specification No.	(c.) Canadian Registration No.	(d) Applicable Drawings With Last Rev. & Date	(e) National Board No.
(1)	2006- 116	Note 1	N/A	CH-1077/I 12/31/98	N/A
(2)	2006- 117	Note 1	N/A	CH-1077/I 12/31/98	N/A
(3)	2006- 118	Note 1	N/A	CH-1077/I 12/31/98	N/A
(4)	2006- 119	Note 1	N/A	CH-1077/I 12/31/98	N/A
(5)	2006- 120	Note 1	N/A	CH-1077/I 12/31/98	N/A
(6)	2006- 121	Note 1	N/A	CH-1077/I 12/31/98	N/A
(7)	2006- 122	Note 1	N/A	CH-1077/I 12/31/98	N/A
(8)	2006- 123	Note 1	N/A	CH-1077/I 12/31/98	N/A
(9)	2006- 124	Note 1	N/A	CH-1077/I 12/31/98	N/A
(10)	2006- 125	Note 1	N/A	CH-1077/I 12/31/98	N/A

7. Remarks:

Note 1: SA36, SA106 GR.B, SA563 GR.A, SA193 GR.B7, SA216 GR.WCB, SA307 GR.A

PO#: 45194933

SO#: 41-74740

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/88) This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NF-1 (Back - Pg. 2 of 2)

Component Support I.D. Nos. 2006-116 through 2006-125

CERTIFICATE OF DESIGN

Design Specification certified by H. R. Sonderegger P.E. State R.I. Reg. no 3537

Design Report certified by Frank J. Birch P.E. State R.I. Reg. no 4149

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that these component supports conform to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2802 Expires 9/29/2007

Date 7/24/06 Name Anvil International, Inc. (NPT Certificate Holder) Signed [signature]

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Rhode Island and employed by H.S.B. C.T. of Hartford, C.T. have inspected the component supports described in this Data Report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed these component supports 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 supports described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

1E22 - 074

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-5-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 2

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200279002
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: HIGH PRESSURE CORE SPRAY 1E22

5. (a) Applicable Construction Code: ASME Section III Class 2 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N-224-1, N242, N272, N275.

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 75 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E22	86	1E22 F0035	1985	Replacement	YES

7. Description of Work: REPLACED VALVE S/N 5 WITH VALVE S/N 3.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 543 psi Test Temperature N.O.T. degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 5 JUNE, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on JUNE 5, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 5 June, 20 09 Signed _____ *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

Best Available Copy 7/22/09 SMF email

1E22-074 SHEET 2 of 2

FORM NV-1 MANUFACTURERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*
(As Required by the Provisions of the ASME Code Section III, Div. 1)

1. Manufactured by TARGET ROCK CORP., 1966E. Broadhollow Rd., E. Farmingdale
(Name and address of Manufacturer)

2. Manufactured for Cleveland Electric Illuminating Co., Cleveland, Ohio
(Name and address of Purchaser or Owner)

3. Location of Installation Perry Nuclear Power Plant, Perry, Ohio
(Name and address)

4. (CRN) 1 1/2 X 2 REH-S-3 (Drawing No.) (Nat'l. Bd. No.) 1982 (Year Built)

5. Valve 76B-012 (Model No., Series No.) Identifying Nos. 3 (Manufacturer's Serial No.)

Type Relief Valve
Safety, Safety Relief, Pilot Power Actuated

Orifice Size .500 inch Nominal Inlet Size 1 1/2 inch Outlet Size 2 inch

6. Set Pressure (PSIG) 1560 Rated Temperature 212

Stamped Capacity ---- lbs/hr @ ____ % Overpressure Blowdown (PSIG)
Sat. Steam

Hydrostatic Test (PSIG) Inlet 3250 Outlet 3250
*Applicable to valves for closed systems only

7. Pressure Retaining Pieces

	Serial No. or Identification	Material Specification Incl. Type or Grade
Body	300424	ASME-SA479-316L
Bonnet or Yoke	300387	ASME-SA479-316
Support Rods		
Nozzle	202075	ASME-SA479-316L
Disc	202989	ASME-SA564 GR.630
Spring Washers		
Adjusting Screw		
Spindle		
Spring		
Bolting	Nut Hex 3/8-16 UNC2B	ASME-SA194-2H
Other Pieces		
Flange	202074	ASME-SA479-316L
Screw Sock. Hd.	3/8-16 x 1 1/2	ASME-SA193-B7
Screw Sock. Hd.	102609	ASME-SA193-B7

4974

* 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.

(1/76) This form (E00042) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

Best Available copy SMF Email 7/22/09

FORM NV-1 (Back)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1974 Edition, Addenda Sum. 1975 (Date)

Code Case No. ---.

Date 10/13/77 Signed Target Rock Corp. (Manufacturer) by [signature] G. Abruzzo, Mgr. Quality

Our ASME Certificate of Authorization No. 1949 to use the NV (NV) symbol expires 12/9/82 (Date)

CERTIFICATION OF DESIGN

Design information on file at Target Rock Corporation

Stress analysis report (Class 1 only) on file at: ---

Design specifications certified by[1] Jan Paul Socket

PE State Pa. Reg. No. 20130E

Stress report certified by[1] ---

PE State --- Reg. No. ---

[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 New York and employed by Commercial Union Ins. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 10/13 1982 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/13 1982

Signed [signature] (Inspector) Commissions NEW YORK STATE COMMISSION NO. 2268 ALSO COMMISSIONED IN Penn. Ohio & Conn. (Nat'l Bd., State, Prov. and No.)

GILBERT/COMMONWEALTH 4974 G/C-QA

1E51-147

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 06/12/09
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 200275849 R/0
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-26-2011

4. Identification of System: 1E51 RX ISOLATION COOLING SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III CLASS NB CLASS 1 1974 Edition
NAME/SECTION/DIVISION/CLASS TGL 7/2/09

WINTER 1975 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda NA Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition NA Addenda NA 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 First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	RA-53	824	1E51F065	1982	REPLACEMENT	YES

7. Description of Work: Installed new disk S/N H4460-10. Also replaced (2) 1-3/8-8 studs Ht # D145 and (4) 1-3/8-8 hex nuts Ht# TBX.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
Pressure 1030 psi Test Temperature 150 degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: N/A

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, John W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 11

Date 6/12, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB I&T CT. TEL 6/15/09 of HARTFORD have inspected the repair, modification or replacement described in this report on JUNE 15, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/15, 20 09 Signed Thomas L Laps (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

IE51-147 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

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation 1900 S. Saunders St. Raleigh, NC
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp/Accounts Payable/P.O. Box 6100 Johnstown, PA 15907-6100
(name and address of purchaser)

3. Location of installation Perry Main Warehouse/Perry Nuclear Power Plant/ 10 Center Road, Perry OH 44081
(name and address)

4. Type

D82-24401-17 R/F	SA105	N/A	N/A	2009
(drawing no.)	(mat'l. spec. no.)	(tensile strength)	(CRN)	(year built)

5. ASME Code, Section III, Division 1:

1974	Winter, 1975	1	N/A
(edition)	(addenda date)	(class)	(Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A

7. Remarks: DISC FOR DISC PISTON ASSY FOR Special Int. Class 613 Testable Piston Check Valve
S.O. 78312

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per #4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) H4460-10	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure _____ psi. Temp. _____ °F. Hydro. test pressure _____ (when applicable) at temp. °F

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(11/05)

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. H4460-10 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

Design report* certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Parts conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1563 Expires 11-26-09

Date 3/26/09 Name Flowserve Corporation (NPT Certificate Holder) 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 NC and employed by HSB CT of Hartford, CT have inspected these items described in this Data Report on 3/28/09, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 3/28/09 Signed (Authorized Nuclear Inspector) Commissions NC1549 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1E51-148

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 06/17/09
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
10 Center Road, Perry, Ohio 44081 ORDER 200280523 R/0
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-26-2011

4. Identification of System: 1E51 RX ISOLATION COOLING SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III CLASS NB CLASS 1 1974 Edition
NAME/SECTION/DIVISION/CLASS TGL 7/2/09

WINTER 19 75 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda NA Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition NA Addenda NA Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , n/a 19 n/a Addenda n/a Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	1E51 H0072	1985	REPLACEMENT	YES

7. Description of Work: Replaced snubber S/N 97-614263-32 with new snubber S/N 30800103/009 using new bracket assembly S/N N2038.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: N/A

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, John W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 11

Date 6/17, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of HARTFORD, CT. have inspected the repair, modification or replacement described in this report on JUNE 22 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/22, 20 09 Signed Thomas Laps (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

1E51-149

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 05/17/09
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 200073626 R/0 A-2
(Repair Org. P O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-28-2011

4. Identification of System: 1E51 RX ISOLATION COOLING SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III CLASS NC CLASS 2 1974 Edition
NAME/SECTION/DIVISION/CLASS TGL 7/2/09
WINTER 19 75 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda NA Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition NA Addenda NA Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , n/a 19 n/a Addenda n/a Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E51	84	N/A	1985	REPLACEMENT	YES

7. Description of Work: Replaced 1-1/2 " CHECK VALVE WITH NEW CHECK VALVE S/N 051030 -6 @ 1E51-F0061 USING NEW 1-1/2" C.S PIPE S/N 2M33358, 2"X2"X3/8 C.S.ANGLE S/N JC7699, AND WELD ROD HEAT NO'S CP7808, 065905.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- X Other- ☐
Pressure 67.7 psi Test Temperature 70 degrees F Code Case(s) N416-2

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: N/A

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, John W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9-26, 20 11

Date 6/18, 20 09 Signed FENOC-PNPP (name of repair organization) JMessenger (authorized representative) OE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of HARTFORD have inspected the repair, modification or replacement described in this report on JUNE 29, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/29, 20 09 Signed Thomas Laps (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

REVISED [handwritten initials] Jan. 29 07

DATA PACKAGE NO. 051030

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 certified by VELAN INC. 2125 WARD AVE, MONTREAL, QUEBEC CANADA H4M1T6
(name and address of N Certificate Holder)
2. Manufactured for AREVA NP 3315-A OLD FOREST RD., LYNCHBURG, VA., USA, 24501
(name and address of purchaser)
3. Location of installation FIRST ENERGY CORP. PERRY PLANT STOREROOM, 10 CENTER Rd. NORTH PERRY, OH 44081
(name and address)
4. Model No., Series No., or Type: PISTON CHECK Drawing P011-460090-N01 Rev E CRN N/A
5. ASME Code, Section III, Division 1: 1974 (edition) W1975 (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1 ½ (in.) Outlet size 1 ½ (in.)
7. Material: Body SA-105 COVER SA-105 Disc NOREM-02 Bolting SA-193, GR B7 SA-194, GR 2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) COVER Serial No.	(e) Disk Serial No.
051030-1	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
051030-2	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
051030-3	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
051030-4	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
051030-5	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
051030-6	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J
051030-7	N/A	H/C: MMRIN1	H/C: MMPKU3	H/C: 21J

Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 LAW DRIVE, Box 2300, Fairfield, NJ 07007-2300.

FRA-ANP OP SUP REG

PAGE 3 OF 21

IES1-149 pg 2 of 2

FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 051030

8. Design conditions 500 (pressure) psi 358 (temperature) °F or valve pressure class 600 (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1500 psi

11. Remarks: MATERIALS MEET ASME SECTION II EDITION: 1995 ADDENDA: 1996

DRAWING REVISED TO REV. D. Jan. 29/07

07/01/29

CERTIFICATE OF DESIGN

Design Specification certified by R.D. STADEL P.E. State OHIO Reg. no. 6201027244

Design report certified by S. ISBITSKY P.E. State QUE Reg. no. 22115

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2797-1 Expires APR 20,2007

Date NOV 22 2006 Name VELAN INC. (N Certificate Holder) 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 QUEBEC and employed by REGIE DU BATIMENT of QUEBEC have inspected the pump, or valve, described in this Data Report on November 30, 2006, 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.

J.-P.FACHINETTI QC # 13813

Date Nov 30/2006 signed (Authorized Inspector) Commissions QUEBEC (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

FRA-ANP
OP SUP
REG

1E51-150

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 06/24/09
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
10 Center Road, Perry, Ohio 44081 ORDER 200328428 R/0
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09-26-2011
28 6/24/09

4. Identification of System: 1E51 RX ISOLATION COOLING SYSTEM

5. (a) Applicable Construction Code: ASME SECTION III CLASS NB CLASS 1 19 74 Edition
NAME/SECTION/DIVISION/CLASS TGL 7/2/09
WINTER 19 75 Addenda Code Case(s) N/A

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition winter 75 Addenda NA Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1889 Edition NA Addenda NA Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , n/a 19 n/a Addenda n/a Code Case(s)

(e) Design Responsibilities First Energy Nuclear Operating Company PNPP

6. Identification of Components Repaired, Modified, or Replacement Components

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	1E51 H2074	1985	REPLACEMENT	YES

7. Description of Work: Replaced snubber S/N 29948 with new PSA 1/4 snubber S/N 34879.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: N/A

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, John W. Messenger, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 9/26, 20 11

Date 6/24, 2009 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of HARTFORD CONN. have inspected the repair, modification or replacement described in this report on JUNE 24 2009 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/24, 20 09 Signed (inspector) Commissions NB 9330 "N" "I" "A" OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

1E51-151

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-29-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200263398 (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: REACTOR CORE ISOLATION COOLING 1E51

5. (a) Applicable Construction Code: ASME Section III Class 1 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) * N413, N275, N242, N241, N224, 1728, 1644-5

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 75 (Addenda) * (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1E51	84	1E51	1985	Replacement	YES

7. Description of Work: INSTALLED HEAD SPRAY PIPING USING 3 STUDS 1 3/8-8 HT# D145 AND 8 NUTS 1 3/8-8 HT# TBX FOR FLANGE 1. USED 1 NUT 13/8-8 HT# TBX FOR FLANGE 2. SEE REMARKS.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1036 psi Test Temperature 143 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: USED 1 NUT 1 1/8-8 HT# TRS FOR FLANGE 3. USED 1 STUD 7/8-9 HT# X492 AND 2 NUTS 7/8-9 HT# 2A73 FOR FLANGE 4.

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 29 JUNE, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on June 29 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/29, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1G33-172

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6/16/09
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
   10 Center Road, Perry, Ohio 44081 order 200360835 R/0
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 9/26/2011

4. Identification of System: 1G33 Reactor Water Cleanup

5. (a) Applicable Construction Code: ASME SectionIII NB C CLASS 2 7/2/09, 1974 Edition
   NAME/SECTION/DIVISION/CLASS TGL 7/2/09
   Winter 19 75 Addenda Code Case(s) N/A TGL 7/6/09

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda N/A Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition NONE Addenda N/A Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , NA 19 NA Addenda N/A Code Case(s)

   (e) Design Responsibilities FENOC (PNPP)

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	BORG WARNER	51308	N/A	1G33F040	1979	REPLACEMENT	YES

7. Description of Work: Replaced 6"-1500# gate using new gate S/N 321454.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1266 psi Test Temperature 150 degrees F Code Case(s)

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

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 9-26, 20 11

Date 6/19, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, THOMAS G. LAPS, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of HARTFORD, CONN. have inspected the repair, modification or replacement described in this report on JUNE 25 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/25, 20 09 Signed Thomas G. Laps (inspector) Commissions NB9330 "NI" A OHIO COMM (National Board (include endorsements), and jurisdiction, and no.)

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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

1. Manufactured by Nuclear Valve Div., Borg-Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Cleveland Electric Illuminating Co., P. O. Box 5000, Cleveland, Ohio
(Name and Address of Purchaser or Owner)
3. Location of Installation Perry Nuclear Power Plant, North Perry, Ohio
(Name and Address)
Pump or Valve Gate Nominal Inlet Size 6 (inch) Outlet Size 6 (inch)

	(a) Model No., Spec. No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	1500	51308	N/A	181200-1	2	N/A	1979
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

4. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a PWR and BWR. The temperature, pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)
5. Design Conditions 3600 psi (Pressure) 100 (Temperature) For Valve Pressure Class N/A (1)
6. Cold Working Pressure 3600 psi at 100°F
7. Pressure Retaining Pieces

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
Gate Code 2W25		SA216 WCB	Vulcan	
(b) Forgings				
Body Code 2W25		SA105		
Bonnet Code 3A67		SA105		
Neck Code 2W23		SA105		
Retainer Code 3C19		SA105		

(1) For manually operated valves only

8. 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 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.

(10/77)

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Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts N/A			

e. Hydrostatic test 5400 psi Disk Differential test pressure 3600 psi

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. I. Edition 1974

Addenda Winter 1975 (Date) Code Case No. N/A Date [illegible]

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1254 to use the N (N) 10/27/81 (Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409

Stress analysis report (Class I only) on file at N/A

Design specifications certified by (1) Jeffrey Lee Fink

PE State PA Reg. No. 25626

Stress analysis certified by (1) N/A

PE State N/A Reg. No. N/A

(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 California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump or valve described in this Data Report on 7/30 1979 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump or valve in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/30 1979

[signature] (Inspector) Commissions [illegible] (Nat'l Bd., State, Prov. and No.)

1G33-172 pg 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

Pg. 1 of 3

1. Manufactured and certified by ER/IP INTERNATIONAL INC PUMP DIV. LOS ANGELES OPERATION 7300 E VERNON AVE. VERNON CA 90058
(name and address of NPT Certificate Holder)

2. Manufactured for PERRY NUCLEAR POWER PLANT, 10 CENTER ROAD, DOCK 61, NORTH PERRY, OHIO, 44081
(name and address of Purchaser)

3. Location of installation PERRY NUCLEAR POWER PLANT, 10 CENTER ROAD, DOCK 61, NORTH PERRY, OHIO, 44081
(name and address)

4. Type: ** 2000105, REV.A (drawing no.) * ASME SA105 (mat'l spec. no.) 70,000 PSI (tensile strength) N/A (CRN) 1996 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) WINTER 1975 (addenda date) 2 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A

7. Remarks: ER/IP JOB NO. 95EP9527 PARTNAME: GATE

HYDROSTATIC TESTING NOT PERFORMED. NAMEPLATE ATTACHED AT SHIP

* MATERIAL MEETS ASME SEC. III, 1977 ED., S1977 ADD., CL. 2 ** PART # 2100105000 DENOTES THE PRESSURE CLASS: 1500# MATERIAL TYPE ONLY

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. (O.D.) (in.) N/A Length overall (ft & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 321454	N/A
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 3600 psi. Temp. 100 °F. Hydro. test pressure N/A (when applicable) at temp. °F

Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ X 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

25X1

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. 321654 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

Design report* certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~valve~~ GATE conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1999

Date 10/9/96 Name BW/IP INTERNATIONAL INC. (NPT Certificate Holder) Signed [signature] (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 CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL ENGINEERING ASSOCIATION of NORWOOD, MASS. have inspected these items described in this Data Report on 10/9/96, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 10/9/96 Signed [signature] (Authorized Inspector) Commissions NB1-1S, CA 1864 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

PERRY NUCLEAR POWER PLANT AU 22 10/29/96 CEI

25 X [illegible]

1G33-173

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6/19/09
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 3

2. Plant: Perry Nuclear Power Plant (PNPP) Unit one
   10 Center Road, Perry, Ohio 44081 Order 200360838 R/0
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 9/26/2011

4. Identification of System: 1G33 Reactor Water Cleanup

5. (a) Applicable Construction Code: ASME SectionIII ~~ND~~ N/C CL 455.2 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   Winter 19 75 Addenda Code Case(s) N/A

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda N/A Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition NONE Addenda N/A Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , NA 19 NA Addenda N/A Code Case(s)

   (e) Design Responsibilities FENOC (PNPP)

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	BORG WARNER	50671	N/A	1G33F039	1979	REPLACEMENT	YES

7. Description of Work: Replaced 6"-1500# gate using new gate S/N 318061. S/N 2

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1269 psi Test Temperature 150 degrees F Code Case(s)

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

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 9-26, 20 11

Date 6/19, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QE (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 JUNE 25, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/25, 20 09 Signed (inspector) Commissions NB 9330 NIA OHIO COMM. (National Board (include endorsements), and jurisdiction, and no.)

Best Available Copy SMF Email 7/22/09

1G33/123/4/2 of 3

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

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)

2. Manufactured for Cleveland Electric Illuminating Co., P.O. Box 5000, Cleveland, Ohio
(Name and Address of Purchaser or Owner)

3. Location of Installation Perry Nuclear Power Plant, North Perry, Ohio
(Name and Address)

4. Pump or Valve Gate Nominal Inlet Size 6 (inch) Outlet Size 6 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	1500#	50671	N/A	81200-1	2	N/A	1979
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. The valves are designed to handle a fluid media which includes steam, water, condensate, borated water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 3600 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate-Code 2W25	SA216 WCB	Vulcan	
(b) Forgings			
Body-Code 2W22	SA105	Jorgensen	
Bonnet-Code 3A67	SA105	Compton	
Neck-Code 2W23	SA105	Jorgensen	
Retainer-Code 3C19	SA105	Jorgensen	

(1) For manually operated valves only.

*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 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.

(6/77) This form (E00037) may be obtained from [illegible]

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FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts N/A			

9. Hydrostatic test 5400 psi. Disk Differential test pressure 5000 psi

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. I. Edition 1974 Addenda Winter 1975 (Date) Code Case No. N/A Date 7/20/79

Signed Nuclear Valve Div., Borg Warner (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1254 to use the N (N) symbol expires 10/27/81 (Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Jeffrey Lee Fink

PE State PA Reg. No. 25626

Stress analysis certified by (1) N/A

PE State N/A Reg. No. N/A

(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 California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump or valve described in this Data Report on 7/20 1979 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump or valve in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/20 1979

[signature] (Inspector) Commissions 1297 CA 169 (Nat'l Bd., State, Prov. and No.)

Best available copy SMF Email 7/22/09

1G33-F178 pg 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

Pg. 1 of 2

1. Manufactured and certified by BW/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATION 2300 E. VERNON AVE. VERNON CA 90058
(name and address of NPT Certificate Holder)

2. Manufactured for PERRY NUCLEAR POWER PLANT, 10 CENTER ROAD, DOCK 21, NORTH PERRY, OHIO, 44081
(name and address of Purchaser)

3. Location of installation PERRY NUCLEAR POWER PLANT, 10 CENTER ROAD, DOCK 21, NORTH PERRY, OHIO, 44081
(name and address)

4. Type 2000105, REV A — SSE SA105 — 70,000PSI — N/A — 1996
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1974 — WINTER 1975 — 2 — N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A

7. Remarks: BW/IP JOB NO. 95129527 — PART NAME: [illegible]

HYDROSTATIC TESTING NOT PERFORMED — NAMEPLATE ATTACHED BY [illegible]

* MATERIAL MEETS ASME — ** PART # 2100105000 DENOTES THE

PRESSURE CLASS - 1500 — SB-[illegible], 1977 ED., S1977 ADD., CL.2 — MATERIAL TYPE ONLY

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	318061 SN2	N/A	(26)		
(2)			(27)		
(3)			(28)		
(4)			(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(34)		
(10)			(35)		
(11)			(36)		
(12)			(37)		
(13)			(38)		
(14)			(39)		
(15)			(40)		
(16)			(41)		
(17)			(42)		
(18)			(43)		
(19)			(44)		
(20)			(45)		
(21)			(46)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

10. Design pressure 3600 psi. Temp. 100 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*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.

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Best available copy SMF Email 7/22/09

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 318081 SD through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

Design report certified by N/A (when applicable) P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) CATZ conforms to the rules of construction of the ASME Code, Section III, Division 1.

N-1 Certificate of Authorization No. N-1131 Expires June 20, 1998

Date 6-26-96 Name BW/IP INTERNATIONAL INC (N-1 Certificate Holder) Signed [signature] (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 CALIFORNIA and employed by [illegible] MUTUAL INS. CO. FACTORY MUTUAL ENGINEERING ASSOCIATION of NORWOOD, MASS. have inspected these items described in this Data Report on 6/26/96 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 6/26/96 Signed [signature] (Authorized Inspector) Commissions NB 11S, CA 1864 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

1H22 - 005

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-21-09
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200281931
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: LOCAL PANELS AND RACKS

5. (a) Applicable Construction Code: ASME Section III Class NC Class 2 1974 Edition
NAME/SECTION/DIVISION/CLASS TGL 7/7/09
WINTER 19 75 Addenda Code Case(s) N249,N71-11,N71-9, N71-6, N225, N272, N413
1728

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	JOHNSON CONTROLS	1B21	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 34264 WITH SNUBBER S/N 28138.
PLANT ID 1H22-H2761.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 21 APRIL, 20 09 Signed FENOC-PNPP (name of repair organization) Michael J Tepsick (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 22 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 4/22, 20 09 Signed Thomas G. Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1M17-008

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 3-24-2009
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200276695
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: 1M17 CONTAINMENT VACUUM RELIEF

5. (a) Applicable Construction Code: ASME Section III Class ~~3~~ 2 1974 Edition
NAME/SECTION/DIVISION/CLASS

WINTER 19 75 Addenda Code Case(s) N272, 1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:

19 89 , _____ 19 none Addenda none Code Case(s)

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 29534 AND 25957 WITH SNUBBERS S/N 42992 AND S/N 42991. PLANT ID 1M17H0002 AND 1M17H0003.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐

Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept. 20 11

Date 25 March, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MARCH 26, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 3/26, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1M17-009

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 3-24-2009
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200276692
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: 1M17 CONTAINMENT VACUUM RELIEF

5. (a) Applicable Construction Code: ASME Section III Class ~~3~~ 2 (1M17 3-25-09), 1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition; W 1975 Addenda; none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition; none Addenda; none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 29538 AND 26001 WITH SNUBBERS S/N 42989 AND S/N 42990. PLANT ID 1M17H0005 AND 1M17H0006.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
   Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 25 March, 20 09 Signed FENOC-PNPP *(name of repair organization)* _____ *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on MARCH 26 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 3/26, 20 09 Signed Thomas G Laps *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1M17-010

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-13-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200276693
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: 1M17 CONTAINMENT VACUUM RELIEF

5. (a) Applicable Construction Code: ASME Section III Class 2 (NAME/SECTION/DIVISION/CLASS), 1974 Edition
WINTER 19 75 Addenda Code Case(s) N272, 1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 29506 AND 29601WITH SNUBBERS S/N 42987 AND S/N 42988. PLANT ID 1M17H0008 AND 1M17H0009.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 13 April, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 16, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 4/16, 20 09 Signed (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1M17-011

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-25-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200276694
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: 1M17 CONTAINMENT VACUUM RELIEF

5. (a) Applicable Construction Code: ASME Section III Class 2 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
WINTER 19 75 Addenda Code Case(s) N272, 1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 29255 AND 29256 WITH SNUBBERS S/N 43324 AND S/N 43327. PLANT ID 1M17H0011 AND 1M17H0012.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 25 April, 20 09 Signed FENOC-PNPP (name of repair organization) Michael J Tepsick (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 25, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 4/25, 20 09 Signed Thomas G. Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

"CORRECTED COPY
10-4-07

1M51-028

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 10/4/07
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200153518
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 9/28/08

4. Identification of System: CUMBUSTIBLE GAS CONTROL 1M51

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
Winter 19 75 Addenda Code Case(s) NONE

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W75 (Addenda) N/A (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) NONE (Addenda) N/A (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 N/A Addenda N/A (Code Case(s))

(e) Design Responsibilities First Energy Corp

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	BORG WARNER	53874	N/A	1M51F10b	1980	REPLACEMENT	YES

7. Description of Work: INSTALLED 36 BONNET/BODY 5/8 – 11 HH NUTS 21 HT# 506C AND 15 HT#P762

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370

BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 08

Date 4 OCT., 20 07 Signed FENOC-PNPP *(name of repair organization)* [signature] *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on OCT. 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 10/10, 20 07 Signed [signature] *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1M51-029

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 10/4/07
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200153517
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 9/28/08

4. Identification of System: COMBUSTIBLE GAS CONTROL 1M51

5. (a) Applicable Construction Code: ASME SECTION III CLASS 2 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
   Winter 19 75 Addenda Code Case(s) NONE

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W75 Addenda N/A Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition NONE Addenda N/A Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 N/A Addenda N/A Code Case(s)

   (e) Design Responsibilities First Energy Corp

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
VALVE	BORG WARNER	53873	N/A	1M51F10a	1980	REPLACEMENT	YES

7. Description of Work: INSTALLED 36 BONNET/BODY 5/8 – 11 HH NUTS HT# 506C.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
   Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF RA-2370 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 08

Date 4 OCT., 20 07 Signed FENOC-PNPP *(name of repair organization)* [signature] *(authorized representative)* QC Tech. *(title)*

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on OCT. 8, 20 07 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with 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 10/8, 20 07 Signed [signature] *(inspector)* Commissions NB 9330 "N" "I" "A" Ohio Comm. *(National Board (include endorsements), and jurisdiction, and no.)*

1N22-067

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-27-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200284468
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: MAIN, REHEAT, EXTRACTION, AND MISC. DRAINS 1N22

5. (a) Applicable Construction Code: ASME Section III Class 2 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
WINTER 19 75 Addenda Code Case(s) N272, 1644-5

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1M17	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 15988 WITH SNUBBER S/N 18237.
PLANT ID 1N22H0089.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NOI-1741

9. Remarks:

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 27 April, 20 09 Signed FENOC-PNPP (name of repair organization) (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 28 20 09. and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 4/28, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1N22-068

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-27-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200284471 (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: MAIN, REHEAT, EXTRACTION, AND MISC. DRAINS 1N22

5. (a) Applicable Construction Code: ASME Section III Class 1 (NAME/SECTION/DIVISION/CLASS), 1974 Edition
   WINTER 19 75 Addenda Code Case(s) N272; 1644-5

   (b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none (Code Case(s))

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1N22	N/A	N/A	1985	Replacement	YES

7. Description of Work: REPLACED SNUBBER S/N 22908 WITH SNUBBER S/N 24405.
   PLANT ID 1N22H0148.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
   Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 27 April, 20 09 Signed FENOC-PNPP (name of repair organization) _____ (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 28 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 4/28, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1N27-049

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 5-26-9
10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
10 Center Road, Perry, Ohio 44081 200194807
(Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
10 Center Road, Perry, Ohio 44081 Authorization No. 33
Expiration Date 09/28/2011

4. Identification of System: FEEDWATER 1N27

5. (a) Applicable Construction Code: ASME Section III Class 2 (NAME/SECTION/DIVISION/CLASS) 1974 Edition
WINTER 19 75 Addenda Code Case(s) N272, 1644-5, N413, N242, N282

(b) Construction Code used for repairs, modifications, or replacements: 1974 (Edition) W 1975 (Addenda) none (Code Case(s))

(c) ASME Code Section XI applicable for Inservice Inspection: 1989 (Edition) none (Addenda) none (Code Case(s))

(d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
19 89 , _____ 19 none Addenda none (Code Case(s))

(e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1N27	89	1N27F828	1985	Replacement	YES

7. Description of Work: ADD SMALL BORE VENT ISOLATION VALVE AND ASSOCIATED TUBING AND SUPPORTS PER ECP-04-0091. SEE REMARKS SECTION FOR PARTS USED (GREATER THEN 1").

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
Pressure 46 psi. Test Temperature 78 degrees F Code Case(s) N-416-3

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: USED THE FOLLOWING PARTS: 1.5" ELBOW HT# 76996, 1.5" TEE HT# 77464, 1.5" PIPE SCH 160 HT# 292064, 1.5" COUPLING HT# 9618, 1.5" X .75" REDUCER HT# 0957, FOUR 1.5" U-BOLTS HT# 26904/502193, 2.5"X2.5"X .1875" ANGLE HT# 59972, 2"X2"X.1875"ANGLE HT# JG5237 & JG3525. USED THE FOLLOWING WELD ROD HT# 159443, 065905, CP7808, CT7339, DM7772, AND P1819. NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 26 MAY, 20 09 Signed FENOC-PNPP (name of repair organization) [signature] (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on JUNE 1, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/1, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1N27-050

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 6-19-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200264675
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: FEEDWATER 1N27

5. (a) Applicable Construction Code: ASME Section III Class 1 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272, 1644-5, N413, N242, N282

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda * Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1N27	89	1N27 F559A	1985	Replacement	YES

7. Description of Work: REMOVED VALVE TEST FITTING FOR INTERNAL INSPECTION AND INSTALLED NEW FITTING HT # 14512. USED FILLER METAL HT # 159443.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☒ Other- ☐
   Pressure 1041 psi Test Temperature 143 degrees F Code Case(s) N-416-3

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 19 June, 20 09 Signed FENOC-PNPP (name of repair organization) Michael J Tepsick (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on June 25 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 6/25, 20 09 Signed Thomas G Laps (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)

1P11-011

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

PNPP No. 9308 Rev. 9/11/00 NQI-1741

1. Owner: FIRSTENERGY CORP. Date 4-27-9
   10 Center Road, Perry, Ohio 44081 Sheet 1 of 1

2. Plant: Perry Nuclear Power Plant (PNPP) Unit 1
   10 Center Road, Perry, Ohio 44081 200323587
   (Repair Org. P.O. No., etc.)

3. Work Performed By: FIRSTENERGY Nuclear Operating Company PNPP Type Code Symbol Stamp NR
   10 Center Road, Perry, Ohio 44081 Authorization No. 33
   Expiration Date 09/28/2011

4. Identification of System: CONDENSATE TRANSFER AND STORAGE 1P11

5. (a) Applicable Construction Code: ASME Section III Class 2 ,1974 Edition
   NAME/SECTION/DIVISION/CLASS
   WINTER 19 75 Addenda Code Case(s) N272

   (b) Construction Code used for repairs, modifications, or replacements: 1974 Edition W 1975 Addenda none Code Case(s)

   (c) ASME Code Section XI applicable for Inservice Inspection: 1989 Edition none Addenda none Code Case(s)

   (d) Applicable Edition of Section XI Utilized for Repairs, Modification, or Replacements:
   19 89 , _____ 19 none Addenda none Code Case(s)

   (e) Design Responsibilities FIRSTENERGY CORP.

6. Identification of Components Repaired, Modified, or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nat. Board No.	Other ID.	Year Built	Repair, Replacement, or Modification	ASME Code Stamped
PIPING SYSTEM	PULLMAN POWER	1-P11-37	N/A	N/A	1983	Replacement	YES

7. Description of Work: INSTALLED 12 NEW STUDS 7/8"-9 HT# 55051 AND 24 HH NUTS 7/8"-9 HT# 2C27. PLANT ID 1P11-F0060.

8. Test Conducted: Hydrostatic- ☐ Pneumatic- ☐ Nominal Operating Pressure- ☐ Other- ☐
   Pressure N/A psi Test Temperature N/A degrees F Code Case(s) N/A

NIS-2/NR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS (Back)

PNPP No. 9308 Rev. 9/11/00 NQI-1741

9. Remarks: _____

NO NAMEPLATE/STAMPING PERFORMED DUE TO THE INTERFACE CONTROLS OF PART 3 SECTION 1.8.6 BEING IN EFFECT AND JURISDICTIONAL AUTHORITY CONCURRENCE HAVING BEEN RECEIVED.

Note: Attach all applicable Manufacturer's Data Reports. Supplemental sheets such as lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded on the front of this form.

CERTIFICATE OF COMPLIANCE

I, Michael J Tepsick, certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and to the National Board Inspection Code "NR" rules.

National Board Certificate of Authorization No. 33 to use the "NR stamp expires 28 Sept., 20 11

Date 27 April, 20 09 Signed FENOC-PNPP (name of repair organization) _____ (authorized representative) QC Tech. (title)

CERTIFICATE OF INSPECTION/INSERVICE INSPECTION

I, Thomas G. Laps, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of OHIO and employed by HSB CT. of Hartford, Conn. have inspected the repair, modification or replacement described in this report on April 27, 20 09 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the ASME Code and the National Board Inspection Code "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

Date 4/27, 20 09 Signed _____ (inspector) Commissions NB 9330 "N" "I" "A" Ohio Comm. (National Board (include endorsements), and jurisdiction, and no.)